

SAFETY DATA SHEET

BioOcean[®] Human CTGF ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Human CTGF ELISA Kit, EK198 Other means of identification: Not available Trade name: Human CTGF 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

BioOcean* Human CTGF Standard (tyophilized) While this material is not considered haardous by the OSHA Hazard Communication Standard (2) GFR 1910. 1200, this MSOS storation standard (2) GFR 1910. 1200, this MSOS storation and valiable for employees and other users of this product. BioOcean* PBS Buffer with Tween 20 (Asay, Dilater to Washing buffer) While this material is not considered haardous by the OSHA Hazard Communication Standard (2) GFR 1910. 1200, this MSOS contains valuable information critical to the safe handing and proper use of the product. This MSOS hould be retained and available for employees and other users of this product. BioOcean* Steptavidin-HBP (1000) and Substrate Reagent BioOcean* Steptavidin-HBP (1000) and Substrate Reagent While this material is not considered haardous by the OSHA Hazard Communication Standard (2) GFR 1910. 1200, this MSOS contains valuable information critical to the safe handing and proper use of the product. This MSOS should be retained and available for employees and other users of this product. Classification of the substance or mixture: BioOcean* anti-Human CTGF detect antibody(100X) Not classified. BioOcean* Stop Solution Not classified. Not classified. GHS label elements BioOcean* anti-Human CTGF detect antibody(100X) Not classified. Signal word BioOcean* anti-Human CTGF detect antibody(100X) Not classified. BioOcean* Stop Solution No signal word. No signal word. BioOcean* Stop Solution No signal word. No signal word.	OSHA/HCS status:	BioOcean® anti-Human CTGF 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
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BioOcean* Stop Solution employees and other users of this product. While this materials not considered heardous by the OSHA Hazard Communication Standard (29 CFt 1910. 1200), this MSDS contains valuable information oritical to the stark hearding 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 CTGF detect antibody(100X) Not classified. BioOcean* PBS Buffer with Tween 20 (Assay, BioOcean* PBS Buffer with Tween 20 (Assay, BioOcean* Streptavidin-HRP (100A) and Substrate Reagent Not classified. Signal word BioOcean* anti-Human CTGF detect antibody(100X) Not signal word. BioOcean* Streptavidin-HRP (100A) and Substrate Reagent Not classified. Signal word BioOcean* anti-Human CTGF detect antibody(100X) No signal word. BioOcean* BioFer with Tween 20 (Assay, Diluent or Washing buffer) No signal word. No signal word. BioOcean* BioFer with Tween 20 (Assay, Diluent or Washing buffer) No signal word. No signal word. BioOcean* Streptavidin-HRP (100A) and Substrate Reagent No signal word. No signal word. BioOcean* Streptavidin-HRP (100A) and Substrate Reagent No signal word. No signal word. BioOcean* Streptavidin-HRP (100A) and Substrate Reagent No known significant effects or critical hazards. No known significant			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
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Reagent BioOcean® Stop Solution No known significant effects or critical hazards. Precautionary statements General BioOcean® anti-Human CTGF detect antibody(100X) Not applicable. BioOcean® Human CTGF Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, BioOcean® PBS Buffer with Tween 20 (Assay,			No known significant effects or critical hazards.
Precautionary statements BioOcean® anti-Human CTGF detect antibody(100X) Not applicable. General BioOcean® Human CTGF Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable.			No known significant effects or critical hazards.
General BioOcean® Human CTGF Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable.		BioOcean [®] Stop Solution	No known significant effects or critical hazards.
BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable.		BioOcean [®] anti-Human CTGF detect antibody(100X)	Not applicable.
		BioOcean [®] Human CTGF Standard (lyophilized)	Not applicable.
		BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.



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

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
BioOcean [®] Human CTGF 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 measures

Description of necessary first aid measures

Eye contact BioOcean® anti-Human CTGF 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.



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	BioOcean [®] Human CTGF 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.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
	BioOcean [®] Stop Solution	Get medical attention if irritation occurs. 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 CTGF 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 CTGF Standard (lyophilized)	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) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Remove victim to fresh air and keep at rest in a position comfortable 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. Remove victim to fresh air and keep at rest in a position comfortable
		for breathing. Get medical attention if symptoms occur.
Skin contact	BioOcean® anti-Human CTGF detect antibody(100X) BioOcean® Human CTGF Standard (lyophilized)	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
		clothing and shoes. Get medical attention if symptoms occur.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	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 clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	BioOcean® anti-Human CTGF detect antibody(100X)	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
	BioOcean® Human CTGF Standard (lyophilized)	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.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	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
	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.
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Eye contact	BioOcean [®] anti-Human CTGF detect antibody(100X) BioOcean [®] Human CTGF Standard (lyophilized)	No known significant effects or critical hazards. 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	No known significant effects or critical hazards.
	Reagent BioOcean [®] Stop Solution	No known significant effects or critical hazards.
Inhalation	BioOcean [®] anti-Human CTGF detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean [®] Human CTGF 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.
Skin contact	BioOcean [®] anti-Human CTGF detect antibody(100X)	No known significant effects or critical hazards.



	BioOcean [®] Human CTGF Standard (lyophilized)	A BETTER APPROACH FOR BIOLOGICAL RESEARC 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 CTGF detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean [®] Human CTGF 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 DioOcean® Step Colution	No known significant effects or critical hazards.
	BioOcean [®] Stop Solution	No known significant effects or critical hazards.
Over-exposure signs/symptoms	BioOcean [®] anti-Human CTGF detect antibody(100X)	No specific data.
Eye contact	BioOcean® Human CTGF Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay,	No specific data.
	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 CTGF detect antibody(100X)	No specific data.
	BioOcean [®] Human CTGF 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 CTGF detect antibody(100X)	No specific data.
	BioOcean [®] Human CTGF 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 CTGF detect antibody(100X)	No specific data.
	BioOcean [®] Human CTGF 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 (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		
Suitable extinguishing media	BioOcean [®] anti-Human CTGF detect antibody(100X)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean [®] Human CTGF Standard (lyophilized)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Use an extinguishing agent suitable for the surrounding fire.
	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.
	BioOcean [®] anti-Human CTGF detect antibody(100X)	None known.
Unsuitable extinguishing media	BioOcean [®] anti-Human CTGF detect antibody(100X)	None known.
	BioOcean [®] Human CTGF 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	A BETTER APPROACH FOR BIOLOGICAL RESEARCH None known.
Specific hazards arising from the chemical	BioOcean [®] anti-Human CTGF detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean® Human CTGF 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) BioOcean® Streptavidin-HRP (100x) and Substrate	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container
	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 CTGF detect antibody(100X)	No specific data.
	BioOcean [®] Human CTGF 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	No specific data.
	Reagent BioOcean [®] Stop Solution	No specific data.
Special protective actions for fire-fighters	BioOcean® anti-Human CTGF detect antibody(100X)	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
	BioOcean [®] Human CTGF Standard (lyophilized)	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.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	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.
	BioOcean [®] Stop Solution	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	BioOcean [®] anti-Human CTGF detect antibody(100X)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean [®] Human CTGF Standard (lyophilized)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean [®] Stop Solution	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<u> </u>		

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	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 containment 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.

Precautions for safe handling	RioOcoan® anti Human CTCF datast	Put on appropriate personal protective equipment (see Section
Protective measures	BioOcean® anti-Human CTGF detect antibody(100X)	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8
	BioOcean® Human CTGF 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 CTGF detect antibody(100X)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hanc 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 CTGF Standard (lyophilized)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hand 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 han 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 thi material is handled, stored and processed. Workers should wash han 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 han 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 CTGF detect antibody(100X)	Store in accordance with local regulations. Store in original contai protected from direct sunlight in a dry, cool and well-ventilated an 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,
	BioOcean® Human CTGF Standard (lyophilized)	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Store in accordance with local regulations. Store in original contai protected from direct sunlight in a dry, cool and well-ventilated ar 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,
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Store in accordance with local regulations. Store in original contai protected from direct sunlight in a dry, cool and well-ventilated an 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 7. Handling and storage

BioOcean[®] Stop Solution



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 contamintion. 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

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 CTGF detect antibody(100X) BioOcean® Human CTGF Standard (Iyophilized)	Liquid. 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 CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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.
Odor	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.



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	BioOcean [®] Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Flash point	BioOcean® anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean® Human CTGF 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.
Auto-ignition temperature	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not available. Not available.
Flammable limits	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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.
Molecular weight	BioOcean [®] anti-Human CTGF detect	Not available.
	antibody(100X) BioOcean® Human CTGF Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean [®] Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean [®] Stop Solution	Not available.
Molecular formula	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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.
рН	BioOcean [®] anti-Human CTGF detect antibody(100X)	7.0-7.2
	BioOcean® Human CTGF Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	7.0-7.2
	Substrate Reagent BioOcean [®] Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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.
Melting/freezing point	BioOcean® anti-Human CTGF detect antibody(100X) BioOcean® Human CTGF Standard (lyophilized)	Not available. Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean [®] Stop Solution	Not available.
	Soucean Stop Solution	אטנ מימוומטופ.



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Relative density	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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 CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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.
Vapor density	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF 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 CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Evaporation rate	BioOcean [®] anti-Human CTGF detect	Not available.
	antibody(100X) BioOcean® Human CTGF Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Viceocity	BioOcean [®] anti-Human CTGF detect	Not available.
Viscosity	antibody(100X)	
	BioOcean [®] Human CTGF Standard (lyophilized) BioOcean [®] PBS Buffer with Tween 20 (Assay,	Not available. Not available.
	Diluent or Washing buffer)	NUL available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Solubility	BioOcean® anti-Human CTGF detect antibody(100X)	Not available.
	BioOcean [®] Human CTGF Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean [®] Stop Solution	Not available.
		. tot available.
Physical/chemical properties comments	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
comments	BioOcean [®] Human CTGF Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	
	BioOcean [®] Stop Solution	Not available.

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Section 10. Stability and rea	ctivity	
Reactivity	BioOcean [®] anti-Human CTGF detect antibody(100X)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean [®] Human CTGF Standard (lyophilized)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean [®] Stop Solution	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	BioOcean [®] anti-Human CTGF detect antibody(100X)	The product is stable.
	BioOcean [®] Human CTGF Standard (lyophilized)	The product is stable.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	The product is stable.
	BioOcean [®] Streptavidin-HRP (100x) and	The product is stable.
	Substrate Reagent BioOcean [®] Stop Solution	The product is stable.
Possibility of hazardous reactions	BioOcean [®] anti-Human CTGF 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 CTGF Standard (lyophilized)	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.
	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 reactions will not occur.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	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 [®] Stop Solution	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 CTGF detect antibody(100X)	No specific data.
	BioOcean [®] Human CTGF 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.
	BioOcean [®] anti-Human CTGF detect	No specific data.
Incompatible materials	antibody(100X)	1
	BioOcean® Human CTGF Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	No specific data. No specific data.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	No specific data.
	Substrate Reagent BioOcean [®] Stop Solution	No specific data.
Hazardous decomposition	BioOcean [®] anti-Human CTGF detect antibody(100X)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal
products		conditions of storage and use, hazardous decomposition products should not be produced.
	BioOcean [®] Human CTGF 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
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal
		conditions of storage and use, hazardous decomposition products

Diluent or Washing buffer)

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

conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous

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BioOcean® Stop Solution

A BETTER APPROACH FOR BIOLOGICAL RESEARCH 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.

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 tox Interactive effects: Not available. Other information: Not available. Section 12. Ecological information	le. kicity estimates: Not available.	(posure
Toxicity: Not available.		
Persistence and degradability: Not availa		
Bioaccumulative potential: Not available		
Mobility in soil	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not available.
Soil/water partition: coefficient (K _{oc})	BioOcean® Human CTGF Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or	Not available.
	Washing buffer)	
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Mobility: Not available.		

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 RQ	
Name			(lbs)	(gallons)	(lbs)	(gallons)
BioOcean [®] Substrate Reagent	0-1	Yes.	1000	106.1	1000	106.1
with hydrogen peroxide	0-1	103.	1000	100.1	1000	100.1

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

0,		
International regulations		
Chemical Weapon Convention Li	ist Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol (Annexes A, E	3, C, E)	
Not listed.		
Stockholm Convention on Persis	tent Organic Pollutants	
Not listed.		
Rotterdam Convention on Prior	Inform Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on POPs	and Heavy Metals	
Not listed.		
Canada		
WHMIS (Canada)	BioOcean [®] anti-Human CTGF detect antibody(100X)	Not o



A BETTER APPROACH FOR BIOLOGICAL RES Not controlled under WHMIS (Canada).

BioOcean® Human CTGF Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent

BioOcean[®] Stop Solution

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.)

Health Flammability Health Special

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.