

SAFETY DATA SHEET

BioOcean® Rat TGF-β1 ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Rat TGF-β1 ELISA Kit, EK381

Other means of identification: Not available

Trade name: Rat TGF-β1 ELISA Kit

Supplier/Manufacturer 3550 Lexington Ave, Suite 203, Shoreview, Minnesota 55126

In case of emergency: Bio-Ocean: 1-800-852-7601

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OSHA/HCS status:	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains
	BioOcean® Rat TGF-β1 Standard (lyophilized)	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. 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.
	BioOcean® HCl	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® NaOH	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-Rat TGF-β1 detect antibody(100X)	Not classified.
	BioOcean® Rat TGF-β1 Standard (lyophilized)	Not classified.

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BioOcean® Rat TGF-β1 Standard (lyophilized)	Not classified.
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not classified.
BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not classified.
BioOcean® Stop Solution	Not classified.
BioOcean® HCI	Not classified.
BioOcean® NaOH	Not classified.
BioOcean® anti-Rat TGF-β1 detect antibody(100X)	No signal word.
BioOcean® Rat TGF-β1 Standard (lyophilized)	No signal word.
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No signal word.
BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No signal word.
BioOcean® Stop Solution	No signal word.

No signal word.

No signal word.

GHS label elements Signal word

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

BioOcean® HCl

BioOcean® NaOH



Hazard statements	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	No known significant effects or critical hazards
	BioOcean® NaOH	No known significant effects or critical hazards
Precautionary statements General	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not applicable.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not applicable.
	BioOcean® NaOH	Not applicable.
Prevention	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not applicable.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not applicable.
	BioOcean® NaOH	Not applicable.
Response	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not applicable.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not applicable.
	BioOcean® NaOH	Not applicable.
Storage	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not applicable.
-	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not applicable.
	BioOcean® NaOH	Not applicable.
Disposal	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not applicable.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not applicable.
	BioOcean® NaOH	Not applicable.
Supplemental label elements	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	None known.
• •	BioOcean® Rat TGF-β1 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.



BioOcean® HCl None known.
BioOcean® NaOH None known.

Hazards not otherwise classified

BioOcean® anti-Rat TGF-β1 detect antibody(100X) None known.

BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, None known.

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

None known.

BioOcean® Stop Solution None known.
BioOcean® HCl None known.
BioOcean® NaOH None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name % CAS number

BioOcean® Rat TGF-β1 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

Section 4. First aid	i measures		
Description of necessa	ry first aid measures		
Eye contact	BioOcean® anti-Rat TGF-β1 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® Rat TGF-β1 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.	
	BioOcean® HCl	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® NaOH	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-Rat TGF-β1 detect antibody(100X)	Remove victim to fresh air and keep at rest in a position comfortable	

Inhalation BioOcean® anti-Rat TGF-β1 detect antibody(100X

for breathing. Get medical attention if symptoms occur.

BioOcean® Rat TGF-β1 Standard (lyophilized)

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.

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

Diluent or Washing buffer) for breathing. Get medical attention if symptoms occur.

BioOcean® Streptavidin-HRP (100x) and Substrate
Reagent for breathing. Get medical attention if symptoms occur.

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

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

BioOcean® NaOH Remove victim to fresh air and keep at rest in a position comfortable for breathing to fresh air and keep at rest in a position comfortable.

for breathing. Get medical attention if symptoms occur.

Skin contact BioOcean® anti-Rat TGF-β1 detect antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized) 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
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® 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.



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

Ingestion

BioOcean® anti-Rat TGF-B1 detect antibody(100X)

BioOcean® Rat TGF-B1 Standard (Ivophilized)

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

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

BioOcean® Stop Solution

BioOcean® HCl

BioOcean® NaOH

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 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

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 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 rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities

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. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been

of water to drink. Do not induce vomiting unless directed to do so by

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.

No known significant effects or critical hazards.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

BioOcean® anti-Rat TGF-β1 detect antibody(100X) BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

BioOcean® Stop Solution

No known significant effects or critical hazards BioOcean® HCl No known significant effects or critical hazards. BioOcean® NaOH No known significant effects or critical hazards.

Inhalation

BioOcean® anti-Rat TGF-β1 detect antibody(100X) BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

BioOcean® Stop Solution

BioOcean® HCl BioOcean® NaOH

No known significant effects or critical hazards. No known significant effects or critical hazards.

> No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Skin contact

BioOcean® anti-Rat TGF-B1 detect antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution BioOcean® HCl

BioOcean® NaOH

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion

BioOcean® anti-Rat TGF-β1 detect antibody(100X) BioOcean® Rat TGF-β1 Standard (lyophilized)

No known significant effects or critical hazards. 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.
BioOcean® HCl	No known significant effects or critical hazards.
BioOcean® NaOH	No known significant effects or critical hazards.

Over-exposure signs/symptoms Eye contact

BioOcean® anti-Rat TGF-β1 detect antibody(100X) No specific data. BioOcean® Rat TGF-β1 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 No specific data.

BioOcean® Stop Solution No specific data. BioOcean® HCl

No specific data. BioOcean® NaOH No specific data.

BioOcean® anti-Rat TGF-β1 detect antibody(100X) No specific data. Inhalation BioOcean® Rat TGF-β1 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 No specific data.

Reagent BioOcean® Stop Solution No specific data. BioOcean® HCl No specific data. BioOcean® NaOH No specific data.

BioOcean® anti-Rat TGF-β1 detect antibody(100X) No specific data. Skin contact BioOcean® Rat TGF-β1 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 No specific data.

Reagent BioOcean® Stop Solution No specific data.

BioOcean® HCl No specific data. BioOcean® NaOH No specific data.

BioOcean® anti-Rat TGF-B1 detect antibody(100X) No specific data. Ingestion

BioOcean® Rat TGF-β1 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 No specific data. Reagent BioOcean® Stop Solution No specific data.

BioOcean® HCl No specific data. BioOcean® NaOH No specific data.

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

Notes to physician Specific treatments Protection of first-aiders

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No specific treatment

No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Extinguishing media

BioOcean® anti-Rat TGF-β1 detect antibody(100X) Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire. BioOcean® Rat TGF-β1 Standard (lyophilized) Use an extinguishing agent suitable for the surrounding fire. BioOcean® PBS Buffer with Tween 20 (Assay, Use an extinguishing agent suitable for the surrounding fire. Diluent or Washing buffer) Use an extinguishing agent suitable for the surrounding fire.

BioOcean® Streptavidin-HRP (100x) and Substrate

BioOcean® Stop Solution Use an extinguishing agent suitable for the surrounding fire. BioOcean® HCl Use an extinguishing agent suitable for the surrounding fire. BioOcean® NaOH Use an extinguishing agent suitable for the surrounding fire.



BioOcean® anti-Rat TGF-β1 detect antibody(100X) Unsuitable extinguishing media None known BioOcean® Rat TGF-β1 Standard (lyophilized) None known BioOcean® PBS Buffer with Tween 20 (Assay, None known Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate None known Reagent BioOcean® Stop Solution None known BioOcean® HCl None known BioOcean® NaOH None known. BioOcean® anti-Rat TGF-β1 detect antibody(100X) In a fire or if heated, a pressure increase will occur and the container Specific hazards arising from may burst. the chemical BioOcean® Rat TGF-β1 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, In a fire or if heated, a pressure increase will occur and the container Diluent or Washing buffer) may burst. BioOcean® Streptavidin-HRP (100x) and Substrate In a fire or if heated, a pressure increase will occur and the container Reagent may burst. BioOcean[®] Stop Solution In a fire or if heated, a pressure increase will occur and the container may burst. BioOcean® HCl In a fire or if heated, a pressure increase will occur and the container BioOcean® NaOH In a fire or if heated, a pressure increase will occur and the container may burst. BioOcean® anti-Rat TGF-β1 detect antibody(100X) No specific data. Hazardous thermal decomposition products BioOcean® Rat TGF-β1 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 No specific data. Reagent BioOcean® Stop Solution No specific data. BioOcean® HCl No specific data. BioOcean® NaOH No specific data. BioOcean® anti-Rat TGF-β1 detect antibody(100X) Promptly isolate the scene by removing all persons from the vicinity Special protective actions for of the incident if there is a fire. No action shall be taken involving fire-fighters any personal risk or without suitable training. BioOcean® Rat TGF-β1 Standard (lyophilized) 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, Promptly isolate the scene by removing all persons from the vicinity Diluent or Washing buffer) 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 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. BioOcean® HCl 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® NaOH 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® anti-Rat TGF-B1 detect Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for antibody(100X) contained breathing apparatus (SCBA) with a full face-piece fire-fighters operated in positive pressure mode. BioOcean® Rat TGF-B1 Standard (Ivophilized) Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® PBS Buffer with Tween 20 (Assav. Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece Diluent or Washing buffer) operated in positive pressure mode. BioOcean® Streptavidin-HRP (100x) and Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece Substrate Reagent operated in positive pressure mode. BioOcean® Stop Solution Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



BioOcean® HCl

BioOcean® NaOH

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece

operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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.

Section 7. Handling and storage

Precautions for safe handling Protective measures

BioOcean® anti-Rat TGF-β1 detect antibody(100X)

Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).

BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent BioOcean® Stop Solution

BioOcean® HCl

BioOcean® NaOH

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

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Advice on general occupational hygiene

BioOcean® anti-Rat TGF-β1 detect antibody(100X)

BioOcean® Rat TGF-β1 Standard

(lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

BioOcean® Stop Solution

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. 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. 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. 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. 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. 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

BioOcean® HCl



BioOcean® NaOH

clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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-Rat TGF-β1 detect antibody(100X)

BioOcean® Rat TGF-B1 Standard (Ivophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

BioOcean® Stop Solution

BioOcean® HCl

BioOcean® NaOH

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. 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, 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, 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



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

Body protection

Other skin protection

Respiratory 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.

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.

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. 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-Rat TGF-β1 detect	Liquid.
yo.ou. otate	antibody(100X)	
	BioOcean® Rat TGF-β1 Standard (lyophilized)	Solid

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

BioOcean® Stop Solution Liquid.
BioOcean® HCl Liquid.
BioOcean® NaOH Liquid.

 Color
 BioOcean® anti-Rat TGF-β1 detect
 Not available.

antibody(100X)
BioOcean® Rat TGF-β1 Standard (lyophilized)

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
BioOcean® HCl
BioOcean® NaOH
Not available.
Not available.

Odor BioOcean® anti-Rat TGF-β1 detect Not available.

antibody(100X)
BioOcean® Rat TGF-β1 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.
BioOcean® HCl Not available.
BioOcean® NaOH Not available.

Flash point
BioOcean® anti-Rat TGF-β1 detect
Antibody(100X)
Not available.

BioOcean® Rat TGF-β1 Standard (lyophilized) Not available.

BioOcean® PBS Buffer with Tween 20 (Assay, Not available.

Diluent or Washing buffer)



		A BETTER APPROACH FOR BIOLOGICAL RESEARCH
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Auto-ignition temperature	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 Standard (lyophilized)	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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Flammable limits	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Molecular weight	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Molecular formula	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 Standard (lyophilized)	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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
рН	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	7.0-7.2
	BioOcean® Rat TGF-β1 Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	7.0-7.2
	BioOcean® Stop Solution	1.1-1.3
	BioOcean® HCl	0
	BioOcean® NaOH	14
Boiling/condensation point	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.



Melting/freezing point	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Relative density	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Vapor pressure	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Vapor density	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
Volatility	BioOcean® anti-Rat TGF-β1 detect	Not available.
	antibody(100X) BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
	BioOcean® anti Dat TCF 81 detect	Not available.
Evaporation rate	BioOcean® anti-Rat TGF-β1 detect antibody(100X) BioOcean® Rat TGF-β1 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.
	BioOcean® HCl	Not available.
	BioOcean® NaOH	Not available.
		'
Viscosity	BioOcean® anti-Rat TGF-β1 detect antibody(100X)	Not available.
	BioOcean® Rat TGF-β1 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

BioOcean® HCl Not available. BioOcean® NaOH Not available.

Not available

Not available.

Not available.

BioOcean® anti-Rat TGF-β1 detect Solubility

antibody(100X)

BioOcean® Rat TGF-β1 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. BioOcean® HCl Not available. BioOcean® NaOH Not available.

Physical/chemical properties comments

BioOcean® anti-Rat TGF-β1 detect antibody(100X)

Not available.

BioOcean® Rat TGF-β1 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. BioOcean® HCl Not available. BioOcean® NaOH Not available.

Section 10. Stability and reactivity

Reactivity

BioOcean® anti-Rat TGF-β1 detect antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Substrate Reagent

BioOcean® HCl

BioOcean® NaOH

Chemical stability

BioOcean® Streptavidin-HRP (100x) and

BioOcean® Stop Solution

BioOcean® anti-Rat TGF-β1 detect

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

BioOcean® HCl BioOcean® NaOH 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

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

The product is stable.

The product is stable. The product is stable. The product is stable.

The product is stable. The product is stable. The product is stable.

Possibility of hazardous reactions

BioOcean® anti-Rat TGF-β1 detect

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

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.

Under normal conditions of storage and use, hazardous reactions will

not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

SDS, BioOcean® Rat TGF-β1 ELISA Kit V1



BioOcean® HCl Under normal conditions of storage and use, hazardous reactions will

not occur. Under normal conditions of storage and use, hazardous

reactions will not occur

Under normal conditions of storage and use, hazardous reactions will BioOcean® NaOH not occur. Under normal conditions of storage and use, hazardous

No specific data.

No specific data.

No specific data.

No specific data

No specific data.

reactions will not occur

No specific data. Conditions to avoid BioOcean® anti-Rat TGF-β1 detect

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized) No specific data.

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent BioOcean® Stop Solution

No specific data. No specific data. BioOcean® NaOH No specific data.

BioOcean® anti-Rat TGF-β1 detect Incompatible materials

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and No specific data Substrate Reagent No specific data BioOcean® Stop Solution BioOcean® HCl No specific data. BioOcean® NaOH No specific data.

Hazardous decomposition products

BioOcean® anti-Rat TGF-β1 detect

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

BioOcean® Stop Solution

BioOcean® HCl

BioOcean® NaOH

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

should not be produced.

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

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

should not be produced.

Under normal conditions of storage and use, hazardous

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

should not be produced.

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

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

Under normal conditions of storage and use, hazardous

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

should not be produced.

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)

Not available BioOcean® anti-Rat TGF-β1 detect antibody(100X) BioOcean® Rat TGF-β1 Standard (lyophilized) Not available. Not available. BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not available. Reagent Not available BioOcean® Stop Solution BioOcean® HCl Not available BioOcean® NaOH 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	IATA
UN number UN proper shipping name	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	% EH	EHS	SARA 302 TPQ	SARA 304 RQ		
Name		ENS	(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

WHMIS (Canada)

BioOcean® anti-Rat TGF-β1 detect

Not controlled under WHMIS (Canada).

antibody(100X)

BioOcean® Rat TGF-β1 Standard (lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,
Diluent or Washing buffer)
BioOcean® Streptavidin-HRP (100x) and
Substrate Reagent
BioOcean® Stop Solution

BioOcean® HCl BioOcean® NaOH

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada).

Canadian lists Canadian NPRI: None of the components are listed.

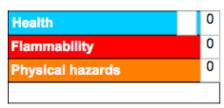
CEPA Toxic substances: None of the components are listed

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.