

SAFETY DATA SHEET

BioOcean® Mouse TNF-α High Sensitivity ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Mouse TNF-α High Sensitivity ELISA Kit, EK282HS

Other means of identification: Not available

Trade name: Mouse TNF-α High Sensitivity 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

OCHA/HCC status	BioOcean® anti-Mouse TNF-α detect
OSHA/HCS status:	bioocean anti-wouse in-a 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 employees and other users of this product.

BioOcean® Mouse TNF-α Standard (lyophilized)

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 (Assav. 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

BioOcean® Streptavidin-HRP (100x) and Substrate

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

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

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employees and other users of this product.

BioOcean® Amplification 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® Amplification Diluent

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

employees and other users of this product.

employees and other users of this product.

Classification of the substance or mixture:

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

Not classified.

Not classified.

BioOcean® Mouse TNF-α Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Not classified. Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate Not classified.

Reagent

BioOcean® Stop Solution Not classified. BioOcean® Amplification Reagent

Not classified. BioOcean® Amplification Diluent Not classified.

GHS label elements Signal word

BioOcean® anti-Mouse TNF-α detect No signal word. antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) No signal word. BioOcean® PBS Buffer with Tween 20 (Assay, No signal word.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No signal word.

Reagent

BioOcean® Stop Solution No signal word. BioOcean® Amplification Reagent No signal word.

BioOcean® Amplification Diluent No signal word.



BioOcean® anti-Mouse TNF-α detect No known significant effects or critical hazards. Hazard statements antibody(100X) BioOcean® Mouse TNF-α Standard (Ivophilized) 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. BioOcean® Amplification Reagent No known significant effects or critical hazards BioOcean® Amplification Diluent No known significant effects or critical hazards BioOcean® anti-Mouse TNF-α detect Precautionary statements Not applicable. antibody(100X) General $BioOcean^{\circledast}\ Mouse\ TNF-\alpha\ Standard\ (lyophilized)$ Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not applicable. BioOcean® Stop Solution Not applicable. BioOcean® Amplification Reagent Not applicable. BioOcean® Amplification Diluent Not applicable. BioOcean® anti-Mouse TNF-α detect Not applicable. Prevention antibody(100X) BioOcean® Mouse TNF-α Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not applicable. Reagent BioOcean® Stop Solution Not applicable. BioOcean® Amplification Reagent Not applicable. BioOcean® Amplification Diluent Not applicable. BioOcean® anti-Mouse TNF- α detect Not applicable. Response antibody(100X) BioOcean® Mouse TNF-α Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not applicable. Reagent BioOcean® Stop Solution Not applicable. BioOcean® Amplification Reagent Not applicable. BioOcean® Amplification Diluent Not applicable. BioOcean® anti- Mouse TNF-α detect Not applicable. Storage antibody(100X) BioOcean® Mouse TNF- α Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not applicable. Reagent BioOcean® Stop Solution Not applicable. BioOcean® Amplification Reagent Not applicable. BioOcean® Amplification Diluent Not applicable. BioOcean® anti-Mouse TNF-α detect Not applicable. Disposal antibody(100X) BioOcean® Mouse TNF-α Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not applicable. Reagent BioOcean® Stop Solution Not applicable. BioOcean® Amplification Reagent Not applicable. BioOcean® Amplification Diluent Not applicable. BioOcean® anti-Mouse TNF-α detect None known. Supplemental label elements antibody(100X) BioOcean® Mouse TNF-α Standard (lyophilized) None known.



BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution None known BioOcean® Amplification Reagent None known. BioOcean® Amplification Diluent None known.

Hazards not otherwise classified

BioOcean® anti-Mouse TNF-α detect antibody(100X)

None known.

None known

BioOcean® Mouse TNF-α Standard (lyophilized)

None known.

BioOcean® PBS Buffer with Tween 20 (Assay,

None known.

Diluent or Washing buffer)

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

None known.

Reagent

None known.

BioOcean® Amplification Reagent BioOcean® Amplification Diluent

None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name CAS number

BioOcean® Mouse TNF-α 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

Inhalation

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and Substrate

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

BioOcean® anti-Mouse TNF-α detect Skin contact

antibody(100X)

BioOcean® Mouse TNF-α Standard (Ivophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

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.

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. 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. Immediately flush eyes with plenty of water, occasionally lifting the

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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.

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.

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

for breathing. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated 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



Diluent or Washing buffer)

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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

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Ingestion

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (Ivophilized)

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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 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.

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

Eye contact

Inhalation

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution BioOcean® Amplification Reagent BioOcean® Amplification Diluent

Skin contact

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.

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.

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

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

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

BioOcean® Stop Solution BioOcean® Amplification Reagent 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.



BioOcean® Amplification Diluent No known significant effects or critical hazards.

BioOcean® anti-Mouse TNF-α detect No known significant effects or critical hazards. Ingestion

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) No known significant effects or critical hazards. BioOcean® PBS Buffer with Tween 20 (Assay, No known significant effects or critical hazards.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No known significant effects or critical hazards.

Reagent

BioOcean® Stop Solution No known significant effects or critical hazards. BioOcean® Amplification Reagent No known significant effects or critical hazards. BioOcean® Amplification Diluent No known significant effects or critical hazards.

Over-exposure signs/symptoms

No specific data. Eye contact BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α 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® Amplification Reagent No specific data. BioOcean® Amplification Diluent No specific data.

BioOcean® anti-Mouse TNF- α detect No specific data. Inhalation

antibody(100X)

BioOcean® Mouse TNF-α 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® Amplification Reagent No specific data. BioOcean® Amplification Diluent No specific data.

BioOcean® anti-Mouse TNF-α detect No specific data. Skin contact

antibody(100X)

BioOcean® Mouse TNF-α 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® Amplification Reagent No specific data. BioOcean® Amplification Diluent No specific data.

BioOcean® anti-Mouse TNF-α detect Ingestion

antibody(100X)

BioOcean® Mouse TNF-α 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® Amplification Reagent No specific data. BioOcean® Amplification Diluent No specific data.

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Notes to physician Specific treatments No specific treatment

No action shall be taken involving any personal risk or without suitable training. Protection of first-aiders

Section 5. Fire-fighting measures

Extinguishing media

BioOcean® anti-Mouse TNF- α detect Use an extinguishing agent suitable for the surrounding fire. Suitable extinguishing media

antibody(100X)

Use an extinguishing agent suitable for the surrounding fire. BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Use an extinguishing agent suitable for the surrounding fire.

No specific data.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate Use an extinguishing agent suitable for the surrounding fire.



Reagent

BioOcean® Stop Solution
BioOcean® Amplification Reagent
BioOcean® Amplification Diluent

Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

BioOcean® anti-Mouse TNF- α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution None known.
BioOcean® Amplification Reagent None known.
BioOcean® Amplification Diluent None known.

In a fire or if heated, a pressure increase will occur and the container

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

Specific hazards arising from the chemical

BioOcean® anti-Mouse TNF- α detect antibody(100X)

00X) may burst.

the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

None known.

None known

None known.

None known.

BioOcean® Mouse TNF-α Standard (Iyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,
Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent BioOcean® Stop Solution

BioOcean Stop Solution

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

BioOcean® Amplification Reagent
BioOcean® Amplification Diluent

In a fire or if heated, a pressure increase will occur and the container

may burst.

Hazardous thermal decomposition products

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution
BioOcean® Amplification Reagent
BioOcean® Amplification Diluent

No specific data.

Special protective actions for fire-fighters

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

BioOcean® Mouse TNF-α 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.

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of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a

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Promptly isolate the scene by removing all persons from the vicinity.

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

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

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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-Mouse TNF- α detect antibody(100X)

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

BioOcean® Mouse TNF- α Standard (Iyophilized)

Diluent or Washing buffer)

BioOcean® PBS Buffer with Tween 20 (Assay,

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

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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 self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

Environmental precautions

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".

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-Mouse TNF-α detect antibody(100X)

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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-Mouse TNF- α detect antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

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

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

BioOcean® Stop Solution

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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

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BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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Conditions for safe storage including any incompatibilities

BioOcean® anti-Mouse TNF- α detect antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

Store in accordance with local regulations. Store in original container $% \left(1\right) =\left(1\right) \left(1\right) \left($ 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 $% \left(1\right) =\left(1\right) \left(1\right) \left($ 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

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.

Liquid.

Not available.

Not available.

Section 9. Physical and chemical properties

BioOcean® anti-Mouse TNF-α detect Physical state Solid

antibody(100X)

BioOcean® Mouse TNF-α Standard Liquid. (lyophilized) BioOcean® PBS Buffer with

Tween 20 (Assay, Diluent or Washing buffer) Liquid. BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

BioOcean® Stop Solution Liauid. BioOcean® Amplification Reagent Liquid. BioOcean® Amplification Diluent Liauid.

BioOcean® anti-Mouse TNF-α detect Not available. Color

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with

Tween 20 (Assay, Diluent or Washing buffer) Not available.

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available

BioOcean® anti-Mouse TNF-α detect Not available. Odor

antibody(100X) BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with

Tween 20 (Assay, Diluent or Washing buffer) Not available.

BioOcean® Streptavidin-HRP (100x) and Substrate Reagent Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available

BioOcean® anti-Mouse TNF-α detect Not available. Flash point



antibody(100X)

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

Substrate Reagent

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

Not available

Not available.

Auto-ignition temperature

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

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

Substrate Reagent

Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

Flammable limits

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

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

Substrate Reagent

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

Molecular weight

BioOcean® anti-Mouse TNF-α detect antibody(100X)

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

Substrate Reagent

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

Molecular formula

BioOcean® anti-Mouse TNF-α detect antibody(100X)

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

Substrate Reagent

Not available. Not available.

Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

рΗ

BioOcean® anti-Mouse TNF-α detect 7.0-7.2 antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

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

7.0-7.2 BioOcean® Stop Solution 1.1-1.3 BioOcean® Amplification Reagent 0 BioOcean® Amplification Diluent 14

Boiling/condensation point

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard

(lyophilized)

Not available.

Not available

7.0-7.2

Not available.



		A BETTER APPROACH FOR E
	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® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Melting/freezing point	BioOcean® anti-Mouse TNF-α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with	Not available.
	Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Relative density	BioOcean® anti-Mouse TNF-α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with	Not available.
	Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Vapor pressure	BioOcean® anti-Mouse TNF- α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with	Not available.
	Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Vapor density	BioOcean® anti-Mouse TNF-α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with	Not available.
	Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Volatility	BioOcean® anti-Mouse TNF-α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with	Not available.
	Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Amplification Reagent	Not available.
	BioOcean® Amplification Diluent	Not available.
Evaporation rate	BioOcean® anti-Mouse TNF- α detect antibody(100X)	Not available.
	BioOcean® Mouse TNF-α Standard	Not available.
	(lyophilized) 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.

BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

BioOcean® anti-Mouse TNF-α detect Not available. Viscosity antibody(100X)

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

Substrate Reagent Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

BioOcean® anti-Mouse TNF-α detect Not available. Solubility

antibody(100X) BioOcean® Mouse TNF-α Standard

Not available. (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Not available. BioOcean® Streptavidin-HRP (100x) and Substrate Reagent Not available.

BioOcean® Stop Solution Not available.

BioOcean® Amplification Reagent Not available. BioOcean® Amplification Diluent Not available.

BioOcean® anti-Mouse TNF-α detect Physical/chemical properties antibody(100X) comments

> BioOcean® Mouse TNF-α Standard Not available. (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Not available.

> BioOcean® Streptavidin-HRP (100x) and Substrate Reagent Not available.

BioOcean® Stop Solution Not available. BioOcean® Amplification Reagent BioOcean® Amplification Diluent Not available.

Section 10. Stability and reactivity

BioOcean® anti-Mouse TNF-α detect No specific test data related to reactivity available for this product or Reactivity antibody(100X)

BioOcean® Mouse TNF-α Standard No specific test data related to reactivity available for this product or (lyophilized) BioOcean® PBS Buffer with No specific test data related to reactivity available for this product or Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and its ingredients.

Not available.

Not available.

Not available.

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

BioOcean® Amplification Reagent 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 BioOcean® Amplification Diluent

its ingredients.

Chemical stability BioOcean® anti-Mouse TNF-α detect The product is stable

antibody(100X)

BioOcean® Mouse TNF-α Standard The product is stable (Iyophilized) BioOcean® PBS Buffer with The product is stable. Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent The product is stable.

BioOcean® Stop Solution The product is stable. The product is stable. BioOcean® Amplification Reagent The product is stable. BioOcean® Amplification Diluent

SDS, BioOcean® Mouse TNF-α High Sensitivity ELISA Kit V1

Possibility of hazardous reactions

BioOcean® anti-Mouse TNF-α detect antibody(100X)

BioOcean® Mouse TNF-α Standard (Ivophilized)

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

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

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.

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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-Mouse TNF-α detect antibody(100X)

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

BioOcean® Stop Solution BioOcean® Amplification Reagent BioOcean® Amplification Diluent

Incompatible materials

BioOcean® anti-Mouse TNF-α detect antibody(100X)

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

Substrate Reagent

BioOcean® Stop Solution BioOcean® Amplification Reagent BioOcean® Amplification Diluent

Hazardous decomposition products

BioOcean® anti-Mouse TNF-α detect

antibody(100X)

BioOcean® Mouse TNF-α Standard (lyophilized)

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

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

BioOcean® Stop Solution

BioOcean® Amplification Reagent

BioOcean® Amplification Diluent

No specific data

No specific data.

No specific data

No specific data.

No specific data. No specific data. No specific data.

No specific data.

No specific data.

No specific data. No specific data.

No specific data. No specific data. No specific data.

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.

Numerical measures of toxicity Acute toxicity estimates: Not available.

Interactive effects: Not available.
Other information: Not available.

Fertility effects: 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-Mouse TNF-α detect antibody(100X) Not available. BioOcean® Mouse TNF-α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Not available. Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not available. Reagent BioOcean® Stop Solution Not available. Not available BioOcean® Amplification Reagent BioOcean® Amplification Diluent 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	0/	FLIC	SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(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-Mouse TNF-α detect

antibody(100X)

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

Substrate Reagent

Not controlled under WHMIS (Canada).



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

BioOcean® Stop Solution
BioOcean® Amplification Reagent
BioOcean® Amplification Diluent

 ${\bf Canadian\ \ lists\ \ Canadian\ \ NPRI:\ None\ of\ the\ components\ \ are\ listed.}$

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

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