

SAFETY DATA SHEET

BioOcean® Human CTLA-4/CD152 ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Human CTLA-4/CD152 ELISA Kit, EK1241

Other means of identification: Not available Trade name: Human CTLA-4/CD152 ELISA Kit

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

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

Section 2. Hazards identification

OSHA/HCS status: BioOcean® anti-Human CTLA-4 detect antibody(100X)

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

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Communication Standard (29 CFR 1910. 1200), this MSDS contains

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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® 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

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BioOcean® Stop Solution While this material is not considered hazarr

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Classification of the substance

or mixture:

BioOcean® anti-Human CTLA-4 detect

BioOcean® Human CTLA-4 Standard (lyophilized)

antibody(100X)

Not classified.

BioOcean® Human CTLA-4 Standard (lyophilized) Not classified.

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)
BioOcean® Substrate Reagent Not classified.
BioOcean® Stop Solution Not classified.

GHS label elements Signal word

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution No signal word.

No signal word.

No signal word.

No signal word.

Hazard statements BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)
BioOcean® Substrate Reagent
BioOcean® Stop Solution

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.

Precautionary statements General BioOcean® anti-Human CTLA-4 detect

antibody(100X)

Not applicable.

BioOcean® Human CTLA-4 Standard (lyophilized)

 $\mathsf{BioOcean}^{\otimes}\,\mathsf{PBS}\,\mathsf{Buffer}$ with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. Not applicable.

Not applicable.



BioOcean® Stop Solution Not applicable. Prevention BioOcean® anti-Human CTLA-4 detect Not applicable. antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Response BioOcean® anti-Human CTLA-4 detect Not applicable. antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Storage BioOcean® anti-Human CTLA-4 detect Not applicable. antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Disposal BioOcean® anti-Human CTLA-4 detect Not applicable. antibody(100X) BioOcean® Human CTLA-4 Standard (Ivophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. BioOcean® anti-Human CTLA-4 detect Supplemental label elements None known. antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) None known. BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) BioOcean® Substrate Reagent None known. BioOcean® Stop Solution None known. BioOcean® anti-Human CTLA-4 detect None known. Hazards not otherwise antibody(100X) classified BioOcean® Human CTLA-4 Standard (lyophilized) None known. BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) None known. BioOcean® Substrate Reagent BioOcean® Stop Solution None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name % CAS number BioOcean® Human CTLA-4 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

BioOcean® anti-Human CTLA-4 detect Eye contact

antibody(100X)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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	A BETTER APPROACH FOR BIOLOGICAL RESEARCH
BioOcean® Human CTLA-4 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,	Immediately flush eyes with plenty of water, occasionally lifting the
Diluent or Washing buffer)	upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
BioOcean® 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.

Get medical attention if irritation occurs.

Inhalation

Skin contact

BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Stop Solution

BioOcean® Stop Solution

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Stop Solution

BioOcean® anti-Human CTLA-4 detect Ingestion

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

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

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

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

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

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

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. Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

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

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

Eye contact

BioOcean® anti-Human CTLA-4 detect No known significant effects or critical hazards. antibody(100X) BioOcean® Human CTLA-4 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® Substrate Reagent No known significant effects or critical hazards.

BioOcean® Stop Solution

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution

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

Inhalation

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No known significant effects or critical hazards.

Skin contact BioOcean® anti-Human CTLA-4 detect No known significant effects or critical hazards.

antibody(100X)

BioOcean® Human CTLA-4 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.

No known significant effects or critical hazards.

BioOcean® Substrate Reagent

No known significant effects or critical hazards.

BioOcean® Stop Solution

No known significant effects or critical hazards.

Ingestion BioOcean® anti-Human CTLA-4 detect No known significant effects or critical hazards.

antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized)

BioOcean® Human CTLA-4 Standard (Iyophilized)

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

BioOcean® Substrate Reagent

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

BioOcean® Stop Solution

Over-exposure signs/symptoms

Eye contact BioOcean® anti-Human CTLA-4 detect No specific data.

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

No specific data.

BioOcean® Substrate Reagent No specific data.

BioOcean® Stop Solution No specific data.

Inhalation BioOcean® anti-Human CTLA-4 detect No specific data.

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

No specific data.

BioOcean® PBS Buffer with Tween 20 (Assay,
Diluent or Washing buffer)
BioOcean® Substrate Reagent
BioOcean® Stop Solution
No specific data.

Skin contact BioOcean® anti-Human CTLA-4 detect No specific data.

antibody(100X)
BioOcean® Human CTLA-4 Standard (lyophilized)
No specific data.

BioOcean® PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer)

BioOcean® Substrate Reagent

BioOcean® Stop Solution

No specific data.

No specific data.

Ingestion BioOcean® anti-Human CTLA-4 detect No specific data.

antibody(100X)
BioOcean® Human CTLA-4 Standard (Ivophilized)
No specific data.

BioOcean® PBS Buffer with Tween 20 (Assay, No specific data.
Diluent or Washing buffer)

BioOcean® Substrate Reagent No specific data.

BioOcean® Stop Solution No specific data.

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

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments

No specific treatment

Protection of first-aiders

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

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media BioOcean® anti-Human CTLA-4 detect Use an extinguishing agent suitable for the surrounding fire.

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Substrate Reagent

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

BioOcean® Substrate Reagent

Use an extinguishing agent suitable for the surrounding fire.

BioOcean® Stop Solution

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media BioOcean® anti-Human CTLA-4 detect

BioOcean® anti-Human CTLA-4 detect None known antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

Diluent or Washing buffer)



BioOcean® Substrate Reagent BioOcean® Stop Solution None known BioOcean® anti-Human CTLA-4 detect In a fire or if heated, a pressure increase will occur and the container Specific hazards arising from antibody(100X) the chemical BioOcean® Human CTLA-4 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. In a fire or if heated, a pressure increase will occur and the container BioOcean® Substrate Reagent may burst. In a fire or if heated, a pressure increase will occur and the container BioOcean® Stop Solution may burst. BioOcean® anti-Human CTLA-4 detect No specific data. Hazardous thermal antibody(100X) decomposition products BioOcean® Human CTLA-4 Standard (lyophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) BioOcean® Substrate Reagent No specific data. BioOcean® Stop Solution No specific data. BioOcean® anti-Human CTLA-4 detect Promptly isolate the scene by removing all persons from the vicinity Special protective actions for antibody(100X) of the incident if there is a fire. No action shall be taken involving fire-fighters any personal risk or without suitable training. BioOcean® Human CTLA-4 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® Substrate Reagent Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. BioOcean® Stop Solution Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training BioOcean® anti-Human CTLA-4 detect Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for contained breathing apparatus (SCBA) with a full face-piece fire-fighters operated in positive pressure mode. BioOcean® Human CTLA-4 Standard Fire-fighters should wear appropriate protective equipment and self-(lyophilized) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® PBS Buffer with Tween 20 (Assay, Fire-fighters should wear appropriate protective equipment and self-Diluent or Washing buffer) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® Substrate Reagent Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece 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. 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.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable For emergency responders 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 **Environmental precautions**

relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Small spill

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.

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or Large spill confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place



in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling
Protective measures

BioOcean® anti-Human CTLA-4 detect antibody(100X)

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

BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)
BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

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

Advice on general occupational hygiene

BioOcean® anti-Human CTLA-4 detect antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

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

Conditions for safe storage including any incompatibilities

BioOcean® anti-Human CTLA-4 detect antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Substrate Reagent

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,

BioOcean® Stop Solution



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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 child children.

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

Other skin protection

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

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state

BioOcean® anti-Human CTLA-4 detect Liquid.
antibody(100X)

antibody(100X)
BioOcean® Human CTLA-4 Standard Solid
(lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)
BioOcean® Substrate Reagent Liquid.
BioOcean® Stop Solution Liquid.

Color BioOcean® anti-Human CTLA-4 detect Not available.

antibody(100X)

BioOcean® Human CTI A-4 Standard

Not available

BioOcean® Human CTLA-4 Standard Not availabl (lyophilized)

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

Diluent or Washing buffer)

BioOcean® Substrate Reagent Not available.

BioOcean® Stop Solution Not available.

Odor BioOcean® anti-Human CTLA-4 detect Not available. antibody(100X)

BioOcean® Human CTLA-4 Standard Not available.

(lyophilized)

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

Diluent or Washing buffer)



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	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	Dis Consession and House a CTI A A distant	Not as a Salata
Flash point	BioOcean® anti-Human CTLA-4 detect	Not available.
	antibody(100X)	Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized)	NOT available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Auto-ignition temperature	BioOcean® anti-Human CTLA-4 detect	Not available.
riate ignition temperature	antibody(100X)	
	BioOcean® Human CTLA-4 Standard	Not available.
	(lyophilized)	
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	Dis Conne ® anti Human CTI A 4 datast	Not available.
Flammable limits	BioOcean® anti-Human CTLA-4 detect antibody(100X)	NOT available.
	BioOcean® Human CTLA-4 Standard	Not available.
	(lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	THE GRANGE
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Human CTLA-4 detect	Not available.
Wielesman Weight	antibody(100X)	
	BioOcean® Human CTLA-4 Standard	Not available.
	(lyophilized)	
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® anti-Human CTLA-4 detect	Not available.
Molecular formula	Dioocean anti-numan CTEA-4 detect	NOT available.
	antihody/100Y)	
	antibody(100X) BioOcean® Human CTI A-4 Standard	Not available
	BioOcean® Human CTLA-4 Standard	Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized)	
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
рН	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
рН	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. Not available.
рН	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. Not available.
рН	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (Iyophilized)	Not available. Not available. 7.0-7.2 Not available
рН	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available. Not available. 7.0-7.2
рН	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available. Not available. Not available. 7.0-7.2 Not available 7.0-7.2
рН	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available. 7.0-7.2 Not available
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рН	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3
pH Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3
	BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Auti-Human CTLA-4 Standard (lyophilized)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Anti-Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available. Not available. Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® Anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available. Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Anti-Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available. Not available. Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® All-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® All Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® All Human CTLA-4 detect antibody(100X) BioOcean® All Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available. Not available.
Boiling/condensation point	BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® anti-Human CTLA-4 detect antibody(100X) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® All-Human CTLA-4 detect antibody(100X) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available. Not available. 7.0-7.2 Not available 7.0-7.2 7.0-7.2 1.1-1.3 Not available.



Section Sect	Relative density	BioOcean® anti-Human CTLA-4 detect	Not available.
BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Stop Solution Not available. BioOcean* BBS buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Stop Solution Not available.	,		Not available.
BioOcean* Stop Solution		BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
Vapor pressure BioOcean* anti-Human CTLA-4 detect antibody(100X) BioOcean* Human CTLA-4 Standard (lyophilized) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Stop Solution Vapor density BioOcean* Stop Solution Vapor density BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* BS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* BB Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* BB Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BB Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BB Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BB Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BB Buffer with Tween 20 (Assay, Diluen		BioOcean® Substrate Reagent	Not available.
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BioOcean* Substrate Reagent Not available.		BioOcean® Human CTLA-4 Standard	Not available.
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Vapor density BioOcean* anti-Human CTLA-4 detect antibody(100X) BioOcean* Human CTLA-4 Standard (lyophilized) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Stop Solution Not available. BioOcean* Stop Solution Not available. BioOcean* Stop Solution Not available. Not available. Volatility BioOcean* Stop Solution Not available. BioOcean* Human CTLA-4 detect antibody(100X) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Stop Solution Not available. BioOcean* Human CTLA-4 detect antibody(100X) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. Bi		· ·	
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Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Stop Solution Not available. BioOcean* Stop Solution Not available. BioOcean* anti-Human CTLA-4 detect antibody(100X) BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* BES Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not available. BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* BioGean* Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent Not available. BioOcean* Substrate Reagent Not			Not available.
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BioOcean® Stop Solution Not available.		BioOcean® Substrate Reagent	Not available.
		BioOcean® Stop Solution	Not available.



Section 10. Stability and reactivity

Reactivity

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard

(lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution

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-Human CTLA-4 detect antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® 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.

Conditions to avoid

BioOcean® anti-Human CTLA-4 detect antibody(100X)

BioOcean® Human CTLA-4 Standard

(lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution

No specific data.

No specific data.

No specific data.

No specific data. No specific data.

Incompatible materials

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution

No specific data.

No specific data.

No specific data.

No specific data. No specific data

Hazardous decomposition products

BioOcean® anti-Human CTLA-4 detect

antibody(100X)

Under normal conditions of storage and use, hazardous

BioOcean® Human CTLA-4 Standard

(lyophilized)

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

BioOcean® PBS Buffer with Tween 20 (Assay,

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

Diluent or Washing buffer)

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

should not be produced.

BioOcean® Substrate Reagent Under normal conditions of storage and use, hazardous

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

should not be produced.

BioOcean® Stop Solution



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

Section 11. Toxicological information

Information on toxicological effects Acute toxicity: Not available. Irritation/Corrosion: Not available. Sensitization: Not available. Mutagenicity: Not available. Carcinogenicity: Not available. Reproductive toxicity: Not available. Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Short term exposure: Not available.
Potential immediate effects: Not available.
Potential delayed effects: Not available.
Long term exposure: Not available.

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

Potential chronic health effects:

General: Not available.

Carcinogenicity: Not available.

Mutagenicity: Not available.
Teratogenicity: Not available.
Developmental effects: Not available.

Fertility effects: Not available.

Numerical measures of toxicity Acute toxicity estimates: Not available.

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

Section 12. Ecological information

Toxicity: Not available.

Persistence and degradability: Not available. Bioaccumulative potential: Not available.

Mobility in soil

Soil/water partition: coefficient (K_{oc})

BioOcean® Anti-Human CTLA-4 detect antibody(100X)

BioOcean® Human CTLA-4 Standard (lyophilized)

Not available

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

Not available

Washing buffer)
BioOcean® Substrate Reagent
BioOcean® Stop Solution
Not available
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	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15. Regulatory information

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed Clean Air Act Section 602 Class II Substances: Not listed DEA List I Chemicals (Precursor Chemicals): Not listed DEA List II Chemicals (Essential Chemicals): Not listed SARA 302/304 Composition/information on ingredients

Name	%	FLIC	SARA 302 TPQ		SARA 304 RC	SARA 304 RQ	
		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-Human CTLA-4 detect antibody(100X)

Not controlled under WHMIS (Canada).



Not controlled under WHMIS (Canada).

BioOcean® Human CTLA-4 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution

Canadian lists Canadian NPRI: None of the components are listed. CEPA Toxic substances: None of the components are listed

Canada inventory: Not determined.

Section 16. Other information

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



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



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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