

# **SAFETY DATA SHEET**

# BioOcean® Human SP-D ELISA Kit

# Section 1. Identification

GHS product identifier Code: BioOcean® Human SP-D ELISA Kit, EK1166

Other means of identification: Not available

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

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

Diluent or Washing buffer)



	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	A BETTER APPROACH FOR BIOLOGICAL RESEARCH Not applicable.  Not applicable.
	Stop Solution	нос аррисаме.
Prevention	BioOcean® anti-Human SP-D detect antibody(100X)	Not applicable.
	BioOcean® Human SP-D Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Response	BioOcean® anti-Human SP-D detect antibody(100X)	Not applicable.
	BioOcean® Human SP-D Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Storage	BioOcean® anti-Human SP-D detect antibody(100X)	Not applicable.
	BioOcean® Human SP-D Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate	Not applicable.
	Reagent BioOcean® Stop Solution	Not applicable.
Disposal	BioOcean® anti-Human SP-D detect antibody(100X)	Not applicable.
•	BioOcean® Human SP-D Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Supplemental label elements	BioOcean® anti-Human SP-D detect antibody(100X)	None known.
	BioOcean® Human SP-D Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.
Hazards not otherwise classified	BioOcean® anti-Human SP-D detect antibody(100X)	None known.
	BioOcean® Human SP-D Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name%CAS numberBioOcean® Human SP-D Standard99.9-100-

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

Description of necessary first aid measures

Eye contact BioOcean® anti-Human SP-D detect antibody(100X)

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

Skin contact

Ingestion

Reagent

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A DETTED ADDROACH FOR BIOLOGICAL DECEARC	

BioOcean® Human SP-D 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® Streptavidin-HRP (100x) and Substrate Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

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

BioOcean® anti-Human SP-D detect antibody(100X) Remove victim to fresh air and keep at rest in a position comfortable Inhalation for breathing. Get medical attention if symptoms occur. BioOcean® Human SP-D Standard (lyophilized) Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. BioOcean® PBS Buffer with Tween 20 (Assay, Remove victim to fresh air and keep at rest in a position comfortable Diluent or Washing buffer) for breathing. Get medical attention if symptoms occur. BioOcean® Streptavidin-HRP (100x) and Substrate Remove victim to fresh air and keep at rest in a position comfortable Reagent for breathing. Get medical attention if symptoms occur. BioOcean® Stop Solution Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur. BioOcean® anti-Human SP-D detect antibody(100X) Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

BioOcean® Human SP-D Standard (lyophilized) Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. BioOcean® PBS Buffer with Tween 20 (Assay, Flush contaminated skin with plenty of water. Remove contaminated Diluent or Washing buffer) clothing and shoes. Get medical attention if symptoms occur. BioOcean® Streptavidin-HRP (100x) and Substrate Flush contaminated skin with plenty of water. Remove contaminated Reagent clothing and shoes. Get medical attention if symptoms occur. BioOcean® Stop Solution Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

BioOcean® anti-Human SP-D detect Wash out mouth with water. Remove victim to fresh air and keep at antibody(100X) rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

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

BioOcean® PBS Buffer with Tween 20 (Assay, Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been Diluent or Washing buffer) swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur

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

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

BioOcean® Stop Solution

BioOcean® anti-Human SP-D detect antibody(100X) No known significant effects or critical hazards. Eye contact BioOcean® Human SP-D Standard (lyophilized) No known significant effects or critical hazards. BioOcean® PBS Buffer with Tween 20 (Assav. 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® anti-Human SP-D detect antibody(100X) No known significant effects or critical hazards. Inhalation BioOcean® Human SP-D 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® anti-Human SP-D detect antibody(100X) No known significant effects or critical hazards. Skin contact

Ingestion

Eye contact

Inhalation

Ingestion

Over-exposure signs/symptoms



BioOcean® Human SP-D 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. BioOcean® Stop Solution No known significant effects or critical hazards. BioOcean® anti-Human SP-D detect antibody(100X) No known significant effects or critical hazards. BioOcean® Human SP-D 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. No known significant effects or critical hazards. BioOcean® Stop Solution No specific data. BioOcean® anti-Human SP-D detect antibody(100X) No specific data. BioOcean® Human SP-D Standard (lyophilized) 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® anti-Human SP-D detect antibody(100X) No specific data. BioOcean® Human SP-D Standard (Iyophilized) 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® anti-Human SP-D detect antibody(100X) No specific data. Skin contact BioOcean® Human SP-D Standard (Iyophilized) 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® anti-Human SP-D detect antibody(100X) No specific data. BioOcean® Human SP-D 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.

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

# Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media BioOcean® anti-Human SP-D detect antibody(100X) Use an extinguishing agent suitable for the surrounding fire. BioOcean® Human SP-D Standard (lyophilized) Use an extinguishing agent suitable for the surrounding fire.

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

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

BioOcean<sup>®</sup> Stop Solution Use an extinguishing agent suitable for the surrounding fire.

BioOcean® anti-Human SP-D detect antibody(100X) None known. Unsuitable extinguishing media

BioOcean® Human SP-D Standard (lyophilized) None known. BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate None known.



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

## 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".

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-Human SP-D detect antibody(100X)

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).

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

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

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

Put on appropriate personal protective equipment (see Section

Put on appropriate personal protective equipment (see Section

Put on appropriate personal protective equipment (see Section

BioOcean® Human SP-D Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)
BioOcean® Streptavidin-HRP (100x) and
Substrate Reagent

BioOcean® Stop Solution

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

Advice on general occupational hygiene

BioOcean® anti-Human SP-D detect antibody(100X)

BioOcean® Human SP-D Standard (Iyophilized)

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

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

BioOcean® Stop Solution

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 SP-D detect antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and 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



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

Other skin protection
Respiratory 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 performed and the risks involved and should be approved by a specialist before handling this product.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment

indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state

BioOcean® anti-Human SP-D detect Liquid.
antibody(100X)
BioOcean® Human SP-D Standard (lyophilized)
Solid
BioOcean® PBS Buffer with Tween 20 (Assay, Liquid.
Diluent or Washing buffer)
BioOcean® Streptavidin-HRP (100x) and Liquid.
Substrate Reagent
BioOcean® Stop Solution
Liquid.

Color

BioOcean® anti-Human SP-D detect Not available. antibody(100X) BioOcean® Human SP-D Standard (lyophilized) Not available. BioOcean® PBS Buffer with Tween 20 (Assay, Not available. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Not available. Substrate Reagent BioOcean® Stop Solution Not available. BioOcean® anti-Human SP-D detect Not available. antibody(100X)

Odor

antibody(100X)
BioOcean® Human SP-D Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Not available.

Diluent or Washing buffer)



		A BETTER APPROACH FOR BIOLOGICAL RE
	BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
	Stop Solution	Not available.
Flash point	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Auto-ignition temperature	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	NOT available.
	BioOcean® Stop Solution	Not available.
Molecular formula	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
will	BioOcean® anti-Human SP-D detect	7.0-7.2
рН	antibody(100X) BioOcean® Human SP-D Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay,	7.0-7.2
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	7.0-7.2
	Substrate Reagent BioOcean® Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean® anti-Human SP-D detect	Not available.
5,	antibody(100X) BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Melting/freezing point	BioOcean® anti-Human SP-D detect	Not available.
	antibody(100X) BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.



Relative density	BioOcean® anti-Human SP-D detect antibody(100X) BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Vapor pressure	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not available.
	stocked. Stop solution	Trot availables
Vapor density	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available.
	Diluent or Washing buffer)	NOL available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Volatility	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Evaporation rate	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Viscosity	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Solubility	BioOcean® anti-Human SP-D detect	Not available.
•	antibody(100X) BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent	
	BioOcean® Stop Solution	Not available.
Physical/chemical properties comments	BioOcean® anti-Human SP-D detect antibody(100X)	Not available.
	BioOcean® Human SP-D Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.

# Section 10. Stability and reactivity

Reactivity

BioOcean® anti-Human SP-D detect

antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

BioOcean® Stop Solution

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

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

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

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

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

its ingredients.

Chemical stability

BioOcean® anti-Human SP-D detect

antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and

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 SP-D detect antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

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

BioOcean® Stop Solution

Diluent or Washing buffer)

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

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 SP-D detect antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

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

BioOcean® Stop Solution

No specific data.

No specific data. No specific data.

No specific data.

No specific data

Incompatible materials

BioOcean® anti-Human SP-D detect

antibody(100X)

BioOcean® Human SP-D Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent BioOcean® Stop Solution No specific data.

No specific data.

No specific data.

No specific data.

No specific data

Hazardous decomposition products

BioOcean® anti-Human SP-D detect

antibody(100X)

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

should not be produced.

BioOcean® Human SP-D Standard (lyophilized)

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

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

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

should not be produced.

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

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

should not be produced.

BioOcean® Stop Solution



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

### Section 11. Toxicological information

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

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

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

#### Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Potential delayed effects: Not available.

Potential chronic health effects:

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

Fertility effects: Not available.

Numerical measures of toxicity Acute toxicity estimates: Not available.

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

#### Section 12. Ecological information

Toxicity: Not available.

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

Mobility in soil

Soil/water partition: coefficient (Koc)

BioOcean® anti-Human SP-D detect antibody(100X)

BioOcean® Human SP-D Standard (lyophilized)

Not available

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

BioOcean® Streptavidin-HBP (100x) and Substrate

Not available

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

BioOcean® Stop Solution 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
U	N number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
U	N proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Pa	cking group	-	-	-	-	-	-
En	vironmental hazards	No.	No.	No.	No.	No.	No.
Δα	Iditional 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	%	EHS	SARA 302 TPQ		SARA 304 RQ	
Name			(lbs)	(gallons)	(lbs)	(gallons)
BioOcean® Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1
with hydrogen heroxide						

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 SP-D detect antibody(100X)

Not controlled under WHMIS (Canada).



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

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

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

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

Canada inventory: Not determined.

# Section 16. Other information

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



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



#### 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** 

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