

# SAFETY DATA SHEET

# BioOcean® Human Ephrin-A1/EFNA1 ELISA Kit

### Section 1. Identification

GHS product identifier Code: BioOcean® Human Ephrin-A1/EFNA1 ELISA Kit, EK1189

Other means of identification: Not available Trade name: Human Ephrin-A1/EFNA1 ELISA Kit

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

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

#### Section 2. Hazards identification

BioOcean® anti-Human Ephrin-A1 detect While this material is not considered hazardous by the OSHA Hazard OSHA/HCS status:

antibody(100X) 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 Ephrin-A1 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,

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains Diluent or Washing buffer)

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

Not classified.

Not classified.

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 Ephrin-A1 detect

BioOcean® Human Ephrin-A1 Standard (Ivophilized)

antibody(100X)

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

BioOcean® Substrate Reagent Not classified. BioOcean<sup>®</sup> Stop Solution Not classified.

**GHS** label elements Signal word

BioOcean® anti-Human Ephrin-A1 detect

No signal word. antibody(100X) BioOcean® Human Ephrin-A1 Standard (lyophilized) No signal word.

Diluent or Washing buffer) BioOcean® Substrate Reagent

BioOcean® PBS Buffer with Tween 20 (Assay, No signal word. No signal word. BioOcean<sup>®</sup> Stop Solution No signal word

Hazard statements

BioOcean® anti-Human Ephrin-A1 detect

antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect

antibody(100X)

BioOcean® Human Ephrin-A1 Standard (lyophilized)

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

Not applicable.

Not applicable. Not applicable.

BioOcean® Substrate Reagent Not applicable.

BioOcean® Stop Solution



	Stoccum Stop Solution	
Prevention	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not applicable.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Response	BioOcean® anti-Human Ephrin-A1 detect antibody(100X) BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer)	
	BioOcean® Substrate Reagent BioOcean® Stop Solution	Not applicable.  Not applicable.
	Bioocean Stop Solution	140t applicable.
Storage	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not applicable.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Disposal	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not applicable.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Supplemental label elements	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	None known.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.
	_	
Hazards not otherwise classified	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	None known.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name % **CAS** number BioOcean® Human Ephrin-A1 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 Ephrin-A1 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.

#### SDS, BioOcean® Human Ephrin-A1/EFNA1 ELISA Kit V1

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BioOcean® Human Ephrin-A1 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. BioOcean® Stop Solution Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses.

Inhalation

BioOcean® anti-Human Ephrin-A1 detect antibody(100X) BioOcean® Human Ephrin-A1 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.

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.

Get medical attention if irritation occurs.

Skin contact

BioOcean® anti-Human Ephrin-A1 detect antibody(100X) BioOcean® Human Ephrin-A1 Standard (lyophilized)

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

BioOcean® Stop Solution

BioOcean® Substrate Reagent

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

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

clothing and shoes. Get medical attention if symptoms occur.

Ingestion

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

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

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

swallowed and the exposed person is conscious, give small quantities

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

Eye contact

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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.

Inhalation

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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.

#### SDS, BioOcean® Human Ephrin-A1/EFNA1 ELISA Kit V1

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BioOcean® anti-Human Ephrin-A1 detect No known significant effects or critical hazards. Skin contact antibody(100X) BioOcean® Human Ephrin-A1 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 No known significant effects or critical hazards. BioOcean® anti-Human Ephrin-A1 detect No known significant effects or critical hazards. Ingestion antibody(100X) BioOcean® Human Ephrin-A1 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 No known significant effects or critical hazards. Over-exposure signs/symptoms BioOcean® anti-Human Ephrin-A1 detect No specific data. Eve contact antibody(100X) BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect No specific data. Inhalation antibody(100X) BioOcean® Human Ephrin-A1 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. BioOcean® anti-Human Ephrin-A1 detect No specific data. Skin contact antibody(100X) BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect Ingestion No specific data. antibody(100X)

BioOcean® Human Ephrin-A1 Standard (Ivophilized) 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.

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

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

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

# Section 5. Fire-fighting measures

Extinguishing media

BioOcean® anti-Human Ephrin-A1 detect Suitable extinguishing media

antibody(100X)

BioOcean® Human Ephrin-A1 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. Use an extinguishing agent suitable for the surrounding fire.

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

Unsuitable extinguishing media

BioOcean® anti-Human Ephrin-A1 detect

antibody(100X)

BioOcean® Human Ephrin-A1 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

None known None known.

None known.

Diluent or Washing buffer)

BioOcean® Stop Solution



	BioOcean® Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.
Specific hazards arising from the chemical	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
the chemical	BioOcean® Human Ephrin-A1 Standard (lyophilized)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	In a fire or if heated, a pressure increase will occur and the container may burst.  In a fire or if heated, a pressure increase will occur and the container
	BioOcean® Stop Solution	may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	No specific data.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	No specific data.
	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.
Special protective actions for fire-fighters	BioOcean® anti-Human Ephrin-A1 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 Ephrin-A1 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
	BioOcean® Substrate Reagent	any personal risk or without suitable training.  Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	BioOcean® 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 Ephrin-A1 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 Ephrin-A1 Standard (lyophilized)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® 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 release	ase measures	· · · ·

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders

**Environmental precautions** 

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel". Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

 $Stop\ leak\ if\ without\ risk.\ Move\ containers\ from\ spill\ area.\ Prevent\ entry\ into\ sewers,\ water\ courses,\ basements\ or$ confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect



spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling Protective measures

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

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

Put on appropriate personal protective equipment (see Section

BioOcean® Human Ephrin-A1 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent

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).

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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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

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BioOcean® Stop Solution

contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry,

# Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits
None

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks

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

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	antibody(100X)	Liquia.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Solid
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	BioOcean® Substrate Reagent	Liquid.
	BioOcean® Stop Solution	Liquid.
Color	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (Iyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Odor	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard	Not available.

(lyophilized)



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	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flash point	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Auto-ignition temperature	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular formula	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
рН	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	7.0-7.2
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	7.0-7.2 7.0-7.2
	BioOcean® Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean® anti-Human Ephrin-A1 detect antibody(100X) BioOcean® Human Ephrin-A1 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.
Melting/freezing point	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.



	BioOcean® Stop Solution	Not available.
Relative density	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Vapor pressure	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Vapor density	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Volatility	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Evaporation rate	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Viscosity	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Solubility	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Physical/chemical properties comments	BioOcean® anti-Human Ephrin-A1 detect antibody(100X)	Not available.
	BioOcean® Human Ephrin-A1 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.



# Section 10. Stability and reactivity

Reactivity

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect antibody(100X)

BioOcean® Human Ephrin-A1 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 Ephrin-A1 detect

antibody(100X)

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

BioOcean® Human Ephrin-A1 Standard

(lyophilized)

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

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

Under normal conditions of storage and use, hazardous

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

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

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

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.

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

Aspiration hazard: Not available.

Teratogenicity: 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 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 Ephrin-A1 detect

antibody(100X)

BioOcean® Human Ephrin-A1 Standard (lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Not available

Not available

Not available

Not available

BioOcean® Substrate Reagent
BioOcean® Stop Solution

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	-	-	-	-	-	-
<b>Environmental hazards</b>	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 R	SARA 304 RQ	
Name		EHS	(lbs)	(gallons)	(lbs)	(gallons)	
BioOcean® Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1	

SARA 304 RQ: 68292000 lbs / 31004568 kg SARA 311/312 Classification: Not applicable.

Composition/information on ingredients: No products were found.

State regulations

Massachusetts: None of the components are listed. New York: None of the components are listed. New Jersey: None of the components are listed. Pennsylvania: None of the components are listed.

#### Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Inform Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed. Canada

WHMIS (Canada)

BioOcean® anti-Human Ephrin-A1 detect antibody(100X)

Not controlled under WHMIS (Canada).



Not controlled under WHMIS (Canada).

BioOcean® Human Ephrin-A1 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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