

SAFETY DATA SHEET

BioOcean® Human Fas Ligand/TNFSF6 ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Human Fas Ligand/TNFSF6 ELISA Kit, EK1F02

Other means of identification: Not available

Trade name: Human Fas Ligand/TNFSF6 ELISA Kit

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

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

Section 2. Hazards identification

OSHA/HCS status:	BioOcean® anti-Human Fas Ligand 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 Fas Ligand 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 Fas Ligand detect antibody(100X)	Not classified.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not classified.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not classified.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not classified.
	BioOcean® Stop Solution	Not classified.
GHS label elements		
Signal word	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No signal word.
	BioOcean® Human Fas Ligand 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 Fas Ligand detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean® Human Fas Ligand Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean® Stop Solution	No known significant effects or critical hazards.
Precautionary statements		
General	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not applicable.
	BioOcean® Human Fas Ligand 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.
Prevention	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not applicable.
	BioOcean® Human Fas Ligand 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.
Response	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not applicable.
	BioOcean® Human Fas Ligand 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 Fas Ligand detect antibody(100X)	Not applicable.
	BioOcean® Human Fas Ligand 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.
Disposal	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not applicable.
	BioOcean® Human Fas Ligand 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 Fas Ligand detect antibody(100X)	None known.
	BioOcean® Human Fas Ligand 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 Fas Ligand detect antibody(100X)	None known.
	BioOcean® Human Fas Ligand 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 number
BioOcean® Human Fas Ligand Standard	99.9-100	-

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p> <p>BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)</p> <p>BioOcean® Streptavidin-HRP (100x) and Substrate Reagent</p> <p>BioOcean® Stop Solution</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Inhalation	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p> <p>BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)</p> <p>BioOcean® Streptavidin-HRP (100x) and Substrate Reagent</p> <p>BioOcean® Stop Solution</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p> <p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
Skin contact	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p> <p>BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)</p> <p>BioOcean® Streptavidin-HRP (100x) and Substrate Reagent</p> <p>BioOcean® Stop Solution</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
Ingestion	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p> <p>BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)</p> <p>BioOcean® Streptavidin-HRP (100x) and Substrate Reagent</p> <p>BioOcean® Stop Solution</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Most important symptoms/effects, acute and delayed Potential acute health effects		
Eye contact	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p> <p>BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)</p> <p>BioOcean® Streptavidin-HRP (100x) and Substrate Reagent</p> <p>BioOcean® Stop Solution</p>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
Inhalation	<p>BioOcean® anti-Human Fas Ligand detect antibody(100X)</p> <p>BioOcean® Human Fas Ligand Standard (lyophilized)</p>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>

	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean® Stop Solution	No known significant effects or critical hazards.
Skin contact	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean® Human Fas Ligand Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean® Stop Solution	No known significant effects or critical hazards.
Ingestion	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean® Human Fas Ligand Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean® Stop Solution	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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.
Inhalation	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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.
Skin contact	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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.
Ingestion	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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.
Indication of immediate medical attention and special treatment needed, if necessary, see toxicological information (Section 11)		
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	No specific treatment	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.	
Section 5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Use an extinguishing agent suitable for the surrounding fire.

	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean® Stop Solution	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	BioOcean® anti-Human Fas Ligand detect antibody(100X)	None known.
	BioOcean® Human Fas Ligand 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.
Specific hazards arising from the chemical	BioOcean® anti-Human Fas Ligand detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean® Human Fas Ligand 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	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean® Stop Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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 Fas Ligand 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 Fas Ligand 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 Fas Ligand 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 Fas Ligand 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® 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 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.

Color	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Odor	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flash point	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Auto-ignition temperature	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular formula	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
pH	BioOcean® anti-Human Fas Ligand detect antibody(100X)	7.0-7.2
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	7.0-7.2

	BioOcean® Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Melting/freezing point	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Relative density	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Vapor pressure	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Vapor density	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Volatility	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Evaporation rate	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Viscosity	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.

	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Solubility	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Physical/chemical properties comments	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Not available.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Section 10. Stability and reactivity		
Reactivity	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® Human Fas Ligand Standard (lyophilized)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No specific test data related to reactivity available for this product or its ingredients.
	BioOcean® Stop Solution	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	BioOcean® anti-Human Fas Ligand detect antibody(100X)	The product is stable.
	BioOcean® Human Fas Ligand Standard (lyophilized)	The product is stable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	The product is stable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	The product is stable.
	BioOcean® Stop Solution	The product is stable.
Possibility of hazardous reactions	BioOcean® anti-Human Fas Ligand detect antibody(100X)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	BioOcean® Human Fas Ligand Standard (lyophilized)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	BioOcean® PBS Buffer with Tween 20 (Assay, 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.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	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.
Conditions to avoid	BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
	BioOcean® Human Fas Ligand 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.

Incompatible materials

BioOcean® anti-Human Fas Ligand detect antibody(100X)	No specific data.
BioOcean® Human Fas Ligand 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.

Hazardous decomposition products

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

Mobility: Not available.
Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

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

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

Section 15. Regulatory information

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

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

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

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304 Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	(gallons)	SARA 304 RQ (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 Fas Ligand detect antibody(100X)

Not controlled under WHMIS (Canada).

BioOcean® Human Fas Ligand Standard (lyophilized)

Not controlled under WHMIS (Canada).

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

Not controlled under WHMIS (Canada).

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

Not controlled under WHMIS (Canada).

BioOcean® Stop Solution

Not controlled under WHMIS (Canada).

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

CEPA Toxic substances: None of the components are listed

Canada inventory: Not determined.

Section 16. Other information

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

Health	0
Flammability	0
Physical hazards	0

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



History

Date of issue/Date of revision: 6/11/2016

Date of previous issue: No previous validation.

Version: 1

Section 16. Other information

Key to abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

[Notice to reader](#)

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.