

SAFETY DATA SHEET

BioOcean® Human LMAN2/VIP36 ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Human LMAN2/VIP36 ELISA Kit, EK1169

Other means of identification: Not available Trade name: Human LMAN2/VIP36 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 LMAN2 detect 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

While this material is not considered hazardous by the OSHA Hazard

employees and other users of this product.

BioOcean® Human LMAN2 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® 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 LMAN2 detect antibody(100X)

Not classified.

BioOcean® Human LMAN2 Standard (Ivophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

Not classified Not classified. Not classified.

BioOcean® Substrate Reagent BioOcean[®] Stop Solution

Not classified.

GHS label elements Signal word

BioOcean® anti-Human LMAN2 detect

antibody(100X)

No signal word.

BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

No signal word. No signal word.

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

No signal word. No signal word

Hazard statements

BioOcean® anti-Human LMAN2 detect

antibody(100X)

No known significant effects or critical hazards.

BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

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

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

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

Precautionary statements General

BioOcean® anti-Human LMAN2 detect antibody(100X)

Not applicable.

BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Not applicable. Not applicable.

Diluent or Washing buffer) BioOcean® Substrate Reagent

Not applicable.



BioOcean® Stop Solution Not applicable. Prevention BioOcean® anti-Human LMAN2 detect Not applicable. antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Response BioOcean® anti-Human LMAN2 detect Not applicable. antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Storage BioOcean® anti-Human LMAN2 detect Not applicable. antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. Disposal BioOcean® anti-Human LMAN2 detect Not applicable. antibody(100X) BioOcean® Human LMAN2 Standard (Ivophilized) Not applicable. BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) BioOcean® Substrate Reagent Not applicable. BioOcean® Stop Solution Not applicable. BioOcean® anti-Human LMAN2 detect Supplemental label elements None known. antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) None known. BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) BioOcean® Substrate Reagent None known. BioOcean® Stop Solution None known. BioOcean® anti-Human LMAN2 detect None known. Hazards not otherwise antibody(100X) classified BioOcean® Human LMAN2 Standard (lyophilized) None known. BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) None known. BioOcean® Substrate Reagent BioOcean® Stop Solution None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name % CAS number BioOcean® Human LMAN2 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 antibody(100X)

BioOcean® anti-Human LMAN2 detect

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 LMAN2/VIP36 ELISA Kit V1

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BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

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

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

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

Inhalation

BioOcean® anti-Human LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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.

Skin contact

BioOcean® anti-Human LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Stop Solution

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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been

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

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

Eye contact

BioOcean® anti-Human LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2/VIP36 ELISA Kit V1

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Skin contact BioOcean® anti-Human LMAN2 detect No known significant effects or critical hazards.

antibody(100X)

BioOcean® Human LMAN2 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.

Ingestion BioOcean® anti-Human LMAN2 detect No known significant effects or critical hazards.

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

BioOcean® Substrate Reagent

No known significant effects or critical hazards.

BioOcean® Stop Solution

No known significant effects or critical hazards.

No specific data.

Over-exposure signs/symptoms

Eve contact

BioOcean® anti-Human LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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.

Inhalation BioOcean® anti-Human LMAN2 detect No specific data.

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

No specific data.

BioOcean® Stop Solution No specific data.

Skin contact BioOcean® anti-Human LMAN2 detect No specific data.

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

No specific data.

BioOcean® Substrate Reagent No specific data.

BioOcean® Stop Solution No specific data.

Ingestion BioOcean® anti-Human LMAN2 detect No specific data.

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

No specific data.

BioOcean® Substrate Reagent No specific data.

BioOcean® Stop Solution No specific data.

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

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

No specific treatment

Protection of first-aiders

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

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media BioOcean® anti-Human LMAN2 detect Use an extinguishing agent suitable for the surrounding fire.

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

BioOcean® Substrate Reagent
Use an extinguishing agent suitable for the surrounding fire.

BioOcean® Stop Solution
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media BioOcean® anti-Human LMAN2 detect

Ocean® anti-Human LMAN2 detect None known

antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

None known.

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



BioOcean® Substrate Reagent BioOcean® Stop Solution None known BioOcean® anti-Human LMAN2 detect In a fire or if heated, a pressure increase will occur and the container Specific hazards arising from antibody(100X) the chemical BioOcean® Human LMAN2 Standard (lyophilized) In a fire or if heated, a pressure increase will occur and the container may burst. BioOcean® PBS Buffer with Tween 20 (Assay, In a fire or if heated, a pressure increase will occur and the container Diluent or Washing buffer) may burst. In a fire or if heated, a pressure increase will occur and the container BioOcean® Substrate Reagent may burst. In a fire or if heated, a pressure increase will occur and the container BioOcean® Stop Solution may burst. BioOcean® anti-Human LMAN2 detect No specific data. Hazardous thermal antibody(100X) decomposition products BioOcean® Human LMAN2 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 LMAN2 detect Promptly isolate the scene by removing all persons from the vicinity Special protective actions for antibody(100X) of the incident if there is a fire. No action shall be taken involving fire-fighters any personal risk or without suitable training. BioOcean® Human LMAN2 Standard (lyophilized) Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. BioOcean® PBS Buffer with Tween 20 (Assay, Promptly isolate the scene by removing all persons from the vicinity Diluent or Washing buffer) of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. BioOcean® Substrate Reagent Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. BioOcean® Stop Solution Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training BioOcean® anti-Human LMAN2 detect Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for contained breathing apparatus (SCBA) with a full face-piece fire-fighters operated in positive pressure mode. BioOcean® Human LMAN2 Standard Fire-fighters should wear appropriate protective equipment and self-(lyophilized) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® PBS Buffer with Tween 20 (Assay, Fire-fighters should wear appropriate protective equipment and self-Diluent or Washing buffer) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® Substrate Reagent Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. BioOcean® Stop Solution Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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 LMAN2 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

BioOcean® Human LMAN2 Standard (Ivophilized) 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). Put on appropriate personal protective equipment (see Section 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 LMAN2 detect antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)

BioOcean® Human LMAN2 Standard (lyophilized)

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

BioOcean® Substrate Reagent

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

BioOcean® Stop Solution



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Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits

None

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

Eye/face protection

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.

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 ride, children.

Skin protection

Hand protection

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

Body protection

Other skin protection

Respiratory protection

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

recision protective equipment for the body should be selected based on the task being performed and the risk 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

Applying the rowest and any adultional sale proceeds the selected measures around 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 LMAN2 detect Liquid.
antibody(100X)

antibody(100X)
BioOcean® Human LMAN2 Standard
(lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,
Diluent or Washing buffer)

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

Color BioOcean® anti-Human LMAN2 detect Not available.

antibody(100X)
BioOcean® Human LMAN2 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.

Odor BioOcean® anti-Human LMAN2 detect Not available.

antibody(100X)

BioOcean® Human LMAN2 Standard Not available.

(lyophilized)

RioOcean® PBS Buffer with Tween 20 (Assay Not available

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

Diluent or Washing buffer)



	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flash point	BioOcean® anti-Human LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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.
Auto-ignition temperature	BioOcean® anti-Human LMAN2 detect	Not available.
	antibody(100X) BioOcean® Human LMAN2 Standard	Not available.
	(lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer)	NOT available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean® anti-Human LMAN2 detect	Not available.
Fiditifiable liffics	antibody(100X)	
	BioOcean® Human LMAN2 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Human LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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.
	Stop Solution	Total and the second se
Molecular formula	BioOcean® anti-Human LMAN2 detect	Not available.
	antibody(100X) BioOcean® Human LMAN2 Standard	Not available.
	(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 LMAN2 detect	7.0-7.2
pri	antibody(100X)	Manage Table
	BioOcean® Human LMAN2 Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	BioOcean® Substrate Reagent	7.0-7.2
	BioOcean® Stop Solution	1.1-1.3
	Dia Carante and Harris I MANIA dataset	Manage Table
Boiling/condensation point	BioOcean® anti-Human LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 Standard	Not available.
		Not available.
	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	
	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
Melting/freezing point	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available.
Melting/freezing point	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution	Not available. Not available.
Melting/freezing point	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human LMAN2 detect antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized)	Not available. Not available. Not available. Not available.
Melting/freezing point	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human LMAN2 detect antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available. Not available. Not available. Not available. Not available. Not available.
Melting/freezing point	BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human LMAN2 detect antibody(100X) BioOcean® Human LMAN2 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available. Not available. Not available.



Relative density	BioOcean® anti-Human LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 Standard	Not available.
	(lyophilized) 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 LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 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.
Solubility	BioOcean® anti-Human LMAN2 detect	Not available.
	antibody(100X) BioOcean® Human LMAN2 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.
Physical/chemical properties comments	BioOcean® anti-Human LMAN2 detect antibody(100X)	Not available.
	BioOcean® Human LMAN2 Standard	Not available.
	(lyophilized) 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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 LMAN2 detect

antibody(100X)

BioOcean® Human LMAN2 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.

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

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

Under normal conditions of storage and use, hazardous

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

should not be produced.

BioOcean® Substrate Reagent

Diluent or Washing buffer)

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

Eve 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 LMAN2 detect antibody(100X) BioOcean® Human LMAN2 Standard (Ivophilized)

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

Washing buffer)

Not available BioOcean® Substrate Reagent BioOcean® Stop Solution Not available

Not available Not available

Not available

Mobility: Not available.

Other adverse effects: No known significant effects or critical hazards.



Section 13. Disposal considerations

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

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

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

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

Name	%	FLIC	SARA 302 TPQ		SARA 304 R	SARA 304 RQ	
		EHS	(lbs)	(gallons)	(lbs)	(gallons)	
BioOcean® Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1	

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

Composition/information on ingredients: No products were found.

State regulations

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

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed. Canada

WHMIS (Canada)

BioOcean® anti-Human LMAN2 detect antibody(100X)

Not controlled under WHMIS (Canada).



Not controlled under WHMIS (Canada).

BioOcean® Human LMAN2 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

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