

## SAFETY DATA SHEET

# BioOcean® Rat IgG2b ELISA Kit

#### Section 1. Identification

GHS product identifier Code: BioOcean® Rat IgG2b ELISA Kit, EK377

Other means of identification: Not available

Trade name: Rat IgG2b 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-Rat IgG2b 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® Rat IgG2b Standard (Iyophilized) 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 Diluent or Washing buffer) 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.  $% \label{eq:controller}%$ 

No known significant effects or critical hazards.

Classification of the substance or mixture:

BioOcean® anti-Rat IgG2b detect antibody(100X)

Not classified.

No signal word.

BioOcean® Rat IgG2b Standard (Ivophilized) Not classified.

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

BioOcean® Stop Solution Not classified.

GHS label elements Signal word

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (lyophilized)

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

No signal word.

BioOcean® Substrate Reagent No signal word.

BioOcean® Stop Solution No signal word.

Hazard statements

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (lyophilized)

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

BioOcean® Substrate Reagent

No known significant effects or critical hazards.

No known significant effects or critical hazards.

BioOcean® Substrate Reagent

No known significant effects or critical hazards.

BioOcean® Stop Solution

No known significant effects or critical hazards.

Precautionary statements General BioOcean® anti-Rat IgG2b detect antibody(100X) Not applicable.

BioOcean® Rat IgG2b Standard (Ivophilized) Not applicable.

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



Prevention	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not applicable.
Frevention	BioOcean® Rat IgG2b Standard (Iyophilized)	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-Rat IgG2b detect antibody(100X)	Not applicable.
Response	· · ·	
	BioOcean® Rat IgG2b Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) BioOcean® Substrate Reagent	Not applicable.  Not applicable.
	BioOcean® Stop Solution	Not applicable.
	BioOcean Stop Solution	пот аррисавіе.
Storage	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not applicable.
	BioOcean® Rat IgG2b Standard (Iyophilized)	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-Rat IgG2b detect antibody(100X)	Not applicable.
Disposal	BioOcean® Rat IgG2b Standard (Iyophilized)	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.
Considerate the latest states	BioOcean® anti-Rat IgG2b detect antibody(100X)	None known.
Supplemental label elements	BioOcean® Rat IgG2b Standard (Iyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay,	None known.
	Diluent or Washing buffer)	None known.
	BioOcean® Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.
Hazards not otherwise classified	BioOcean® anti-Rat IgG2b detect antibody(100X)	None known.
Classified	BioOcean® Rat IgG2b Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay,	None known.
	Diluent or Washing buffer)	Name Income
	BioOcean® Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name CAS number BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X) Eye contact

upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs

BioOcean® Rat IgG2b 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.

Immediately flush eyes with plenty of water, occasionally lifting the

BioOcean® PBS Buffer with Tween 20 (Assay,

Immediately flush eyes with plenty of water, occasionally lifting the Diluent or Washing buffer)  $\mbox{\sc upper}$  and  $\mbox{\sc lower}$  eyelids. Check for and  $\mbox{\sc remove}$  any contact lenses. Get medical attention if irritation occurs.

#### SDS, BioOcean® Rat IgG2b ELISA Kit V1



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 eyelids. Check for and remove any contact lenses.

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

Remove victim to fresh air and keep at rest in a position comfortable

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.

for breathing. Get medical attention if symptoms occur.

for breathing. Get medical attention if symptoms occur.

Get medical attention if irritation occurs.

BioOcean® anti-Rat IgG2b detect antibody(100X) Remove victim to fresh air and keep at rest in a position comfortable Inhalation

BioOcean® Rat IgG2b Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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.

BioOcean® anti-Rat IgG2b detect antibody(100X) Ingestion

BioOcean® Rat IgG2b Standard (Ivophilized)

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

Skin contact

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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.

BioOcean® anti-Rat IgG2b detect antibody(100X) Inhalation

BioOcean® Rat IgG2b Standard (Iyophilized)

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

BioOcean® Substrate Reagent BioOcean® Stop Solution

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.

Skin contact BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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

No known significant effects or critical hazards.

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

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



BioOcean® anti-Rat IgG2b detect antibody(100X) No known significant effects or critical hazards. Ingestion BioOcean® Rat IgG2b Standard (Iyophilized) 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 Eye contact

BioOcean® anti-Rat IgG2b detect antibody(100X) No specific data BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X) No specific data. Inhalation BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X) No specific data. Skin contact

BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X) No specific data. BioOcean® Rat IgG2b Standard (lyophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assav. No specific data. Diluent or Washing buffer) BioOcean® Substrate Reagent No specific data. BioOcean® Stop Solution No specific data.

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

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

No specific treatment

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

# Section 5. Fire-fighting measures

Extinguishing media

Ingestion

Suitable extinguishing media BioOcean® anti-Rat IgG2b detect antibody(100X) Use an extinguishing agent suitable for the surrounding fire. BioOcean® Rat IgG2b Standard (Iyophilized) Use an extinguishing agent suitable for the surrounding fire.

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

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

BioOcean® anti-Rat IgG2b detect antibody(100X) None known. Unsuitable extinguishing media

BioOcean® Rat IgG2b Standard (Iyophilized) 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

Specific hazards arising from the chemical

BioOcean® anti-Rat IgG2b detect antibody(100X) In a fire or if heated, a pressure increase will occur and the container

BioOcean® Rat IgG2b 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. BioOcean® 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 Hazardous thermal BioOcean® anti-Rat IgG2b detect antibody(100X) No specific data. decomposition products BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X) Promptly isolate the scene by removing all persons from the vicinity Special protective actions for of the incident if there is a fire. No action shall be taken involving fire-fighters any personal risk or without suitable training. BioOcean® Rat IgG2b Standard (Iyophilized) 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-Rat IgG2b detect Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for antibody(100X) contained breathing apparatus (SCBA) with a full face-piece fire-fighters operated in positive pressure mode. BioOcean® Rat IgG2b Standard (Iyophilized) Fire-fighters should wear appropriate protective equipment and selfcontained 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

#### 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.

operated in positive pressure mode.

operated in positive pressure mode.

operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece

For emergency responders

**Environmental precautions** 

on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable

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 distomaceous 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-Rat IgG2b detect antibody(100X)

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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



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

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

Advice on general occupational hygiene

BioOcean® anti-Rat IgG2b detect antibody(100X)

Diluent or Washing buffer)

BioOcean® Stop Solution

BioOcean® Substrate Reagent

BioOcean® Rat IgG2b Standard (lyophilized)

BioOcean® Rat IgG2b Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage including any incompatibilities BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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



## 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 involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Respiratory protection

## Section 9. Physical and chemical properties

Physical state	BioOcean® anti-Rat IgG2b detect antibody(100X) BioOcean® Rat IgG2b Standard (lyophilized)	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Liquid.
	BioOcean® Stop Solution	Liquid.
Color	BioOcean® anti-Rat IgG2b detect antibody(100X) BioOcean® Rat IgG2b Standard (Iyophilized)	Not available.
		Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	NOL available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
	Dis Casan® anti Dat In Cib datest	Not available.
Odor	BioOcean® anti-Rat IgG2b detect antibody(100X)	NOT available.
	BioOcean® Rat IgG2b 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.
Flash point	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b 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.



		A BETTER APPROACH FOR BIOLOGICAL RESEARCH
Auto-ignition temperature	BioOcean® anti-Rat IgG2b detect antibody(100X) BioOcean® Rat IgG2b 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-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b 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.
Molecular weight	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.  Not available.
	-	
	BioOcean® Stop Solution	Not available.
Molecular formula	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b Standard (Iyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
рН	BioOcean® anti-Rat IgG2b detect antibody(100X)	7.0-7.2
	BioOcean® Rat IgG2b Standard (Iyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2 7.0-7.2
	BioOcean® Substrate Reagent	1.1-1.3
	BioOcean® Stop Solution	1.1-1.5
Boiling/condensation point	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b 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.
Melting/freezing point	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b 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.
	·	
Relative density	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b Standard (Iyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Stop Solution	Not available.
	BioOcean® Stop Solution	NOL AVAIIADIE.
Vapor pressure	BioOcean® anti-Rat IgG2b detect antibody(100X)	Not available.
	BioOcean® Rat IgG2b 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.



Vapor density

BioOcean® anti-Rat IgG2b detect

antibody(100X)

BioOcean® Let IgG2b detect

Not available.

BioOcean® Rat IgG2b Standard (lyophilized)

Not available.

BioOcean® PBS Buffer with Tween 20 (Assay,

Not available.

Diluent or Washing buffer)
BioOcean® Substrate Reagent
BioOcean® Stop Solution
Not available.

Volatility BioOcean® anti-Rat IgG2b detect Not available.

antibody(100X)

BioOcean® Rat IgG2b Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Not available.

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

BioOcean® Substrate Reagent

Not available.

BioOcean® Stop Solution

Not available.

Evaporation rate BioOcean® anti-Rat IgG2b detect Not available.

antibody(100X)

BioOcean® Rat IgG2b 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.

Viscosity BioOcean® anti-Rat IgG2b detect Not available.

antibody(100X)

BioOcean® Rat IgG2b 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.

Solubility BioOcean® anti-Rat IgG2b detect Not available.

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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

BioOcean® Stop Solution

Not available.
Not available.

Physical/chemical properties

comments

BioOcean® anti-Rat IgG2b detect

antibody(100X)

ntibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

Not available.

Not available.

Section 10. Stability and reactivity

Reactivity BioOcean® anti-Rat IgG2b detect No specific test data related to reactivity available for this product or

antibody(100X) its ingredients

BioOcean® Rat IgG2b Standard (lyophilized)

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

Not available.

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® 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-Rat IgG2b detect The product is stable.

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

The product is stable.

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.

#### SDS, BioOcean® Rat IgG2b ELISA Kit V1

Possibility of hazardous reactions

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

BioOcean® PBS Buffer with Tween 20 (Assav. 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.

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reactions will not occur.

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reactions will not occur.

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reactions will not occur.

Conditions to avoid

BioOcean® anti-Rat IgG2b detect

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized) 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-Rat IgG2b detect

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized) 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-Rat IgG2b detect

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized)

BioOcean® PBS Buffer with Tween 20 (Assav.

Diluent or Washing buffer)

BioOcean® Substrate Reagent

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.

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.

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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.

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should not be produced.

## Section 11. Toxicological information

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

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

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects Eye contact: Not available.



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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Potential chronic health effects:

General: Not available.

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

Fertility effects: Not available.

Numerical measures of toxicity Acute toxicity estimates: Not available.

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

Section 12. Ecological information

Toxicity: Not available.

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

Mobility in soil

Soil/water partition: coefficient (Koc)

BioOcean® anti-Rat IgG2b detect antibody(100X)

BioOcean® Rat IgG2b Standard (lyophilized)

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

BioOcean® 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 UN proper shipping name	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

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

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)

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

Not listed.

Canada

WHMIS (Canada)

BioOcean® anti-Rat IgG2b detect

antibody(100X)

BioOcean® Rat IgG2b Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

Not controlled under WHMIS (Canada).

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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