

# SAFETY DATA SHEET

# BioOcean® Rat IgM ELISA Kit

#### Section 1. Identification

GHS product identifier Code: BioOcean® Rat IgM ELISA Kit, EK376

Other means of identification: Not available

Trade name: Rat IgM 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-Rat IgM detect antibody(100X) OSHA/HCS status:

> 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 IgM 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

While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910. 1200), this MSDS contains

employees and other users of this product. BioOcean® PBS Buffer with Tween 20 (Assay, While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910. 1200), this MSDS contains Diluent or Washing buffer) valuable information critical to the safe handling and proper use of

the product. This MSDS should be retained and available for

employees and other users of this product. BioOcean® Substrate Reagent

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of 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.

No known significant effects or critical hazards.

Classification of the substance

or mixture:

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

Not classified.

No signal word.

BioOcean® Rat IgM Standard (Ivophilized) Not classified BioOcean® PBS Buffer with Tween 20 (Assay, Not classified.

Diluent or Washing buffer) BioOcean® Substrate Reagent Not classified. BioOcean<sup>®</sup> Stop Solution Not classified.

**GHS** label elements Signal word

**Precautionary statements** 

General

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

BioOcean® Rat IgM Standard (lyophilized) No signal word. BioOcean® PBS Buffer with Tween 20 (Assay, No signal word. Diluent or Washing buffer) BioOcean® Substrate Reagent No signal word.

BioOcean® Stop Solution No signal word.

BioOcean® anti-Rat IgM detect antibody(100X) Hazard statements

> BioOcean® Rat IgM 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. No known significant effects or critical hazards.

BioOcean® Stop Solution

BioOcean® anti-Rat IgM detect antibody(100X) Not applicable.

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

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient name CAS number BioOcean® Rat IgM 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 IgM detect antibody(100X)

Eye contact

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® Rat IgM Standard (lyophilized)

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses.

Get medical attention if irritation occurs. BioOcean® PBS Buffer with Tween 20 (Assay,

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

#### SDS, BioOcean® Rat IgM 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 ti

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-Rat IgM detect antibody(100X)

BioOcean® Rat IgM Standard (lyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

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

BioOcean® Rat IgM Standard (Iyophilized)

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

BioOcean® Stop Solution

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

BioOcean® Rat IgM Standard (Iyophilized)

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.

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.

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 IgM detect antibody(100X)

BioOcean® Rat IgM 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.

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

BioOcean® Rat IgM 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.

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

BioOcean® Rat IgM 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.



BioOcean® anti-Rat IgM detect antibody(100X) No known significant effects or critical hazards. Ingestion BioOcean® Rat IgM 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 BioOcean® anti-Rat IgM detect antibody(100X) No specific data Eye contact BioOcean® Rat IgM 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® anti-Rat IgM detect antibody(100X) No specific data. Inhalation BioOcean® Rat IgM Standard (lyophilized) No specific data.

BioOcean® Stop Solution

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 IgM detect antibody(100X) No specific data. Skin contact BioOcean® Rat IgM Standard (Iyophilized) 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.

No specific data. Ingestion BioOcean® anti-Rat IgM detect antibody(100X)

> BioOcean® Rat IgM 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 data.

No specific treatment

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

# Section 5. Fire-fighting measures

Extinguishing media

the chemical

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

> BioOcean® Rat IgM 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 IgM detect antibody(100X) None known. Unsuitable extinguishing media

BioOcean® Rat IgM 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

Specific hazards arising from BioOcean® anti-Rat IgM detect antibody(100X)

In a fire or if heated, a pressure increase will occur and the container

BioOcean® Rat IgM Standard (Iyophilized) 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 IgM detect antibody(100X) No specific data. decomposition products BioOcean® Rat IgM Standard (Iyophilized) 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 IgM 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 IgM 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. Promptly isolate the scene by removing all persons from the vicinity BioOcean® Substrate Reagent 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 IgM detect antibody(100X) 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. Fire-fighters should wear appropriate protective equipment and self-BioOcean® Rat IgM Standard (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.

## Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

BioOcean® Stop Solution

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.

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 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 IgM detect antibody(100X)

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

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



BioOcean® Rat IgM Standard (lyophilized)

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

BioOcean® Stop Solution

Advice on general occupational hygiene

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

BioOcean® Rat IgM Standard (Iyophilized)

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

BioOcean® Substrate Reagent

BioOcean® Stop Solution

Conditions for safe storage including any incompatibilities

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

BioOcean® Rat IgM Standard (Iyophilized)

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

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).

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 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.

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

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

Appropriate footwear and any additional skin protection measures should be selected based on the task being

Respiratory protection

Appropriate foctive and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

Physical state	BioOcean® anti-Rat IgM detect antibody(100X)	Liquid.
,	BioOcean® Rat IgM Standard (Iyophilized)	Solid
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	BioOcean® Substrate Reagent	Liquid.
	BioOcean® Stop Solution	Liquid.
	D. C	
Color	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM Standard (Iyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Odor	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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 IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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.
Auto ignition to move turn	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
Auto-ignition temperature	BioOcean® Rat IgM Standard (Iyophilized)	Not available.
	bioocean- nat igivi standard (iyopnilized)	ivot avallable.



		A BETTER APPROACH FOR BIOLOGIC
	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 IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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 IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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 formula	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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.
рН	BioOcean® anti-Rat IgM detect antibody(100X)	7.0-7.2
	BioOcean® Rat IgM Standard (Iyophilized)	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
Boiling/condensation point	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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.
Melting/freezing point	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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.
Relative density	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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 pressure	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM 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 IgM detect antibody(100X)	Not available.
	BioOcean® Rat IgM Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Substrate Reagent	Not available.



Volatility    BioClosen® and Fair Egild defect antibody(1002)   Not available.   Not availa			A BETTER APPROACH FOR BIOLOGICAL RESEARCH
Bolican's Rat (M. Standard (Populited) Bolican's Suffer with Preen 20 (Assay, Dilutent or Washing Suffer) Bolican's Supdards (Response) Bolican's Supdards (Response) Bolican's Rat (M. Standard (Populited) Bolican's Substrate Response Bolican's Substrate Response Bolican's Substrate Response Bolican's Substrate Response Bolican's Assay (M. Standard (Populited) Bolican's Substrate Response Bolican's Substrate Response Bolican's Rat (M. Standard (Populited) Bolican's Substrate Response Bolican's Rat (M. Standard (Populited) Bolican's Substrate Response Bolican's Rat (M. Standard (Populited) Bolican's Rat (M. Standard (Populited))		BioOcean® Stop Solution	Not available.
Recozen* set tight Standard (typophilized) Recozen* south-batter (typophilized) Recozen* set tight Standard (typophilized)	Volatility	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
BioCrean* Stability and reactivity  BioCrean* Stability St	Volutiney	BioOcean® Rat IgM Standard (Iyophilized)	Not available.
BioOcean* Substrate Reagent BioOcean* Rat ligh Manded (Poptillized) BioOcean* Rat ligh Manded		BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
Evaporation rate  BioCocan* and Egif detect antibody(1000) BioCocan* Pass Euffer with Twent 20 (Jossay, BioCocan* Euffer Eu		<del>-</del> :	Not available
BioCocan* Pass IgM Secretar antibody(1000) BioCocan* Pass IgM Secretar Act (pophliced) BioCocan* Pass IgM Secretar Pass			
BioCheam* Rate   My Sanamard (Pyophilized) BioCheam* Substrate Reagent BioCheam* Subst		BioOcean® Stop Solution	Not available.
BioChean* PRS Buffer with Tween 20 (Assay, Diluent or Wathing buffer)   BioChean* Substrate Reagent   Not available.	Evaporation rate	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
Diluent or Washing buffer) BioCrean* Stop Solution BioCrean* Rate (pd Standard (lyophillized) BioCrean* Stop Solution BioCrean		BioOcean® Rat IgM Standard (Iyophilized)	Not available.
BioCean* Stop Solution			Not available.
Viscosity  BioCean* Rat IgM Standard (lyophilized) BioCean* Rat IgM Standard (lyophilized) BioCean* Stop Solution  Not available. No		BioOcean® Substrate Reagent	Not available.
BoOcean* Bas Light Standard (hyophilized) BioOcean* Substrate Resign BioCean* Stop Solution		BioOcean® Stop Solution	Not available.
BoOcean* Bas Light Standard (hyophilized) BioOcean* Substrate Resign BioCean* Stop Solution	Viscosity	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
BioCean* Substrate Reagent BioCean* Start glot Standard (tyophilized) BioCean* Start glot Standard (tyophilized	Viscosity		Not available.
Diluent or Washing buffer)   BioOcean* Storp Solution			
BioOcean* Stop Solution   Not available.		Diluent or Washing buffer)	
Solubility  BioOcean* Rat IgM Standard (lyophilized) BioOcean* Past Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Past Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Past Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Past IgM Standard (lyophilized) 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.  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.  Posseific test data related to reactivity available for this product or its ingredients.  The product is stable.  BioOcean* Past Suffer with Tween 20 (Assay, Dilection Washing buffer)  BioOcean* Stop Solution  BioOcean* Stop Solution Storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous			
BioOcean* Rat IgM Standard (lyophilized) BioOcean* Substrate Reagent BioOcean* Rat IgM Standard (lyophilized) BioOcean* Rat IgM Standard (lyophilized) BioOcean* Substrate Reagent BioOcean* Rat IgM Standard (lyophilized) BioOcean* Substrate Reagent		BioOcean® Stop Solution	Not available.
BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean* Rat IgM Standard (Iyophilized) 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. 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. 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 thi	Solubility	BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
Diluent or Washing buffer) BioOcean* Stop Solution  Physical/chemical properties comments  BioOcean* Rat IgM Standard (lyophilized) BioOcean* Stop Solution  Not available.  N		BioOcean® Rat IgM Standard (Iyophilized)	Not available.
Physical/chemical properties comments  BioOcean* anti-Rat IgM detect antibody(100X) Comments  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Stop Solution  Section 10. Stability and reactivity Reactivity  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  No specific test data related to reactivity available for this product or its impredients. BioOcean* Stop Solution  No specific test data related to reactivity available for this product or its impredients. BioOcean* Stop Solution  No specific test data related to reactivity available for this product or its impredients. BioOcean* Stop Solution  No specific test data related to reactivity available for this product or its impredients. BioOcean* Stop Solution  Chemical stability  BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  Possibility of hazardous reactions BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilize			Not available.
Physical/chemical properties comments  BioOcean* Rat igM Standard (lyophilized) BioOcean* Stability and reactivity  Reactivity  BioOcean* Stop Solution BioOcean* and Rat igM Standard (lyophilized) BioOcean* Stop Solution BioOcean* Stop Solution BioOcean* Stop Solution BioOcean* Rat igM Standard (lyophilized) BioOcean* Rat igM Standard (lyophilized) BioOcean* Rat igM Standard (lyophilized) BioOcean* Stop Solution BioOcean* Rat igM Standard (lyophilized) BioOcean* Stop Solution BioOcean* Rat igM Standard (lyophilized) BioOcean* Stop Solution BioOcean* Solution Storage and use, hazardous r		- ·	Not available.
BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  Section 10. Stability and reactivity  Reactivity  BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* Stop Solution  Not available.		BioOcean® Stop Solution	Not available.
BioOcean* Rat IgM Standard (lyophilized) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Rat IgM Standard (lyophilized) BioOcean* Rat IgM Standard (lyophilized) BioOcean* Substrate Reagent BioOcean* Bat IgM Standard (lyophilized) BioOcean* BioOcean* anti-Rat IgM detect antibody(100X) The product is stable.  Chemical stability  BioOcean* Bat IgM Standard (lyophilized) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Bat IgM Standard (lyophilized) BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Rat IgM Standard (lyophilized) BioOcean* Stop Solution  BioOcean* Rat IgM Standard (lyophilized) BioOcean* 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 st		BioOcean® anti-Rat IgM detect antibody(100X)	Not available.
BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Siop Solution  Chemical stability  BioOcean* BioOcea	comments	PioOcoan® Pat IgM Standard (Ivophilized)	Not available
Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Stop Solution  Not available.  Section 10. Stability and reactivity  Reactivity  BioOcean* Rat IgM detect antibody(100X) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Rat IgM detect antibody(100X)  Chemical stability  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  The product is stable.  The product is			
Section 10. Stability and reactivity  Reactivity  BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  Chemical stability  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Carter Antibody (IOOX) BioOcean* Rat IgM Standard (Iyo		Diluent or Washing buffer)	
Section 10. Stability and reactivity  Reactivity  BioOcean* anti-Rat IgM detect antibody(100X) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Stop Solution  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Rat IgM detect antibody(100X)  The product is stable.  Chemical stability  BioOcean* Rat IgM Standard (Iyophilized) BioOcean* Substrate Reagent BioOcean* PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Substrate Reagent BioOcean* Stop Solution  BioOcean* Stop Solution  BioOcean* Rat IgM detect antibody(100X)  The product is stable.  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. 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. Und			
Reactivity  BioOcean® anti-Rat IgM detect antibody(100X) BioOcean® Rat IgM Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyoph		BioOcean, 2rob 20intion	NOT AVAILABLE.
Reactivity  BioOcean® anti-Rat IgM detect antibody(100X) BioOcean® Rat IgM Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyoph	Section 10. Stability and read	ctivity	
BioOcean® Rat IgM Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Rat IgM detect antibody(100X) Chemical stability BioOcean® anti-Rat IgM Standard (lyophilized) BioOcean® Rat IgM Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized)  BioOcean® Rat IgM Gtandard (lyophil	-	•	
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean® Substrate Reagent BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Rat IgM Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® At IgM Standard (lyophilized) BioOcean® Stop Solution  BioOcean® At IgM Standard (lyophilized)  Diluent or Washing buffer) BioOcean® Stop Solution  BioOcean® At IgM Standard (lyophilized)  Diden or 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. 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		BioOcean® Rat IgM Standard (Iyophilized)	No specific test data related to reactivity available for this product or
BioOcean® Substrate Reagent BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® Stop Solution BioOcean® anti-Rat IgM detect antibody(100X) BioOcean® Rat IgM Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Stop Solution  The product is stable.  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. 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 a		•	No specific test data related to reactivity available for this product or
BioOcean® Stop Solution  No specific test data related to reactivity available for this product or its ingredients.  Chemical stability  BioOcean® anti-Rat IgM detect antibody(100x)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean® Substrate Reagent  BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100x)  BioOcean® anti-Rat IgM detect antibody(100x)  BioOcean® Rat IgM Standard (Iyophilized)  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. 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.			No specific test data related to reactivity available for this product or
Chemical stability  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (lyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean® Stop Solution  The product is stable.  The product is sta		RioOcean® Ston Solution	
BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution  BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  The product is stable.  The product is stable.  The product is stable.  The product is stable.  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.		Bioocean - Stop Solution	
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  The product is stable.  The product is stable.  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. 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.	Chemical stability	BioOcean® anti-Rat IgM detect antibody(100X)	The product is stable.
Diluent or Washing buffer) BioOcean® Substrate Reagent BioOcean® Stop Solution  The product is stable.  The product is stable.  The product is stable.  Possibility of hazardous reactions  BioOcean® anti-Rat IgM detect antibody(100X) BioOcean® Rat IgM Standard (Iyophilized) BioOcean® Rat IgM Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  Diluent or Washing buffer)  The product is stable.  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. 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.		BioOcean® Rat IgM Standard (Iyophilized)	The product is stable.
BioOcean® Substrate Reagent BioOcean® Stop Solution  The product is stable.  The product is stable.  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. 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.			The product is stable.
Possibility of hazardous reactions  BioOcean® anti-Rat IgM detect antibody(100X)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. 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.			The product is stable.
not occur. Under normal conditions of storage and use, hazardous reactions will not occur.  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  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.		BioOcean® Stop Solution	The product is stable.
not occur. Under normal conditions of storage and use, hazardous reactions will not occur.  BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  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.			
BioOcean® Rat IgM Standard (Iyophilized)  BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.  Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous	Possibility of hazardous reactions	BioOcean® anti-Rat IgM detect antibody(100X)	not occur. Under normal conditions of storage and use, hazardous
BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)  Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous		BioOcean® Rat IgM Standard (Iyophilized)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous
			Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous



BioOcean® Substrate Reagent

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

reactions will not occur

Under normal conditions of storage and use, hazardous reactions will BioOcean® Stop Solution not occur. Under normal conditions of storage and use, hazardous

reactions will not occur.

Conditions to avoid BioOcean® anti-Rat IgM detect antibody(100X)

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

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

No specific data. No specific data. No specific data. No specific data.

No specific data

Hazardous decomposition

products

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

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

BioOcean® Rat IgM Standard (Iyophilized)

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

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

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

BioOcean® Substrate Reagent

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

should not be produced.

BioOcean® Stop Solution

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

should not be produced.

## Section 11. Toxicological information

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

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

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects Eye contact: Not available. Inhalation: Not available. Skin contact: Not available. Ingestion: Not available.

Symptoms related to the physical, chemical and toxicological characteristics

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

Ingestion: Not available.

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

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

Potential chronic health effects:

General: Not available.

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

Fertility effects: Not available.

Numerical measures of toxicity Acute toxicity estimates: Not available.

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

## Section 12. Ecological information

Toxicity: Not available.

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

Mobility in soil

Soil/water partition: coefficient (Koc)

BioOcean® anti-Rat IgM detect antibody(100X) Not available. Not available. BioOcean® Rat IgM Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Not available 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

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

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-Rat IgM detect antibody(100X) Not controlled under WHMIS (Canada).

BioOcean® Rat IgM Standard (lyophilized)
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).

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

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