

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 valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for

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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.

Not classified.

Not classified.

Not classified.

Not classified.

Not classified.

No signal word.

Not applicable.

SAFETY DATA SHEET

BioOcean® Rat CCL5/RANTES ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Rat CCL5/RANTES ELISA Kit, EK3129

Other means of identification: Not available Trade name: Rat CCL5/RANTES 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 CCL5 detect antibody(100X)	While this material is not considered hazardous by the OSHA Hazard	
		Communication Standard (29 CFR 1910. 1200), this MSDS contains	

BioOcean® Rat CCL5 Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean[®] Stop Solution

Classification of the substance or mixture:

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (Ivophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

GHS label elements Signal word

Hazard statements

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Stop Solution

Precautionary statements General

BioOcean® Streptavidin-HRP (100x) and Substrate No known significant effects or critical hazards.

BioOcean® anti-Rat CCL5 detect antibody(100X) Not applicable.

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer)



	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not applicable.
Prevention	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not applicable.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Response	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not applicable.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Storage	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not applicable.
2.0.480	BioOcean® Rat CCL5 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Disposal	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not applicable.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean® Stop Solution	Not applicable.
Supplemental label elements	BioOcean® anti-Rat CCL5 detect antibody(100X)	None known.
	BioOcean® Rat CCL5 Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.
Hazards not otherwise classified	BioOcean® anti-Rat CCL5 detect antibody(100X)	None known.
	BioOcean® Rat CCL5 Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean® Stop Solution	None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

 Ingredient name
 %
 CAS number

 BioOcean® Rat CCL5 Standard
 99.9-100

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact BioOcean® anti-Rat CCL5 detect antibody(100X)

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

SDS, BioOcean® Rat CCL5/RANTES ELISA Kit V1

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BioOcean® Rat CCL5 Standard (lyophilized) Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

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

BioOcean[®] Stop Solution

Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the

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

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

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

BioOcean® anti-Rat CCL5 detect antibody(100X) Inhalation

BioOcean® Rat CCL5 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

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

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

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

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

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

Skin contact BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean[®] Stop Solution

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

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

BioOcean® anti-Rat CCL5 detect antibody(100X) Ingestion

BioOcean® Rat CCL5 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

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

BioOcean® anti-Rat CCL5 detect antibody(100X) No known significant effects or critical hazards. Eye contact

BioOcean® Rat CCL5 Standard (lyophilized) No known significant effects or critical hazards. BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No known significant effects or critical hazards.

Reagent

BioOcean® Stop Solution

No known significant effects or critical hazards.

No known significant effects or critical hazards.

BioOcean® anti-Rat CCL5 detect antibody(100X) Inhalation

> BioOcean® Rat CCL5 Standard (Ivophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and 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 CCL5 detect antibody(100X) No known significant effects or critical hazards. Skin contact

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No known significant effects or critical hazards.

No known significant effects or critical hazards.

BioOcean® Rat CCL5 Standard (lyophilized)	No known significant effects or critical hazards.
• • • • • • • • • • • • • • • • • • • •	No known significant effects or critical hazards.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

BioOcean® Stop Solution No known significant effects or critical hazards.

BioOcean® anti-Rat CCL5 detect antibody(100X) Ingestion

BioOcean® Rat CCL5 Standard (lyophilized) No known significant effects or critical hazards. BioOcean® PBS Buffer with Tween 20 (Assay, No known significant effects or critical hazards.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No known significant effects or critical hazards.

Reagent

No known significant effects or critical hazards. BioOcean® Stop Solution

No specific data.

No specific data.

Over-exposure signs/symptoms

Eye contact

Inhalation

No specific data. BioOcean® anti-Rat CCL5 detect antibody(100X) BioOcean® Rat CCL5 Standard (Ivophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assay, No specific data.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No specific data.

Reagent

BioOcean® Stop Solution No specific data.

BioOcean® Rat CCL5 Standard (lyophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assay, No specific data.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate No specific data.

Reagent

BioOcean® Stop Solution No specific data.

BioOcean® anti-Rat CCL5 detect antibody(100X) No specific data. Skin contact

> BioOcean® Rat CCL5 Standard (lyophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

BioOcean® anti-Rat CCL5 detect antibody(100X)

Reagent

BioOcean® Stop Solution No specific data.

BioOcean® anti-Rat CCL5 detect antibody(100X) No specific data. Ingestion

> BioOcean® Rat CCL5 Standard (lyophilized) No specific data. BioOcean® PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate No specific data.

Reagent

BioOcean® Stop Solution No specific data.

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

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

No action shall be taken involving any personal risk or without suitable training. Protection of first-aiders

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media BioOcean® anti-Rat CCL5 detect antibody(100X) Use an extinguishing agent suitable for the surrounding fire. BioOcean® Rat CCL5 Standard (lyophilized)

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® Streptavidin-HRP (100x) and Substrate Use an extinguishing agent suitable for the surrounding fire. Reagent

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

BioOcean® anti-Rat CCL5 detect antibody(100X) None known. Unsuitable extinguishing media BioOcean® Rat CCL5 Standard (lyophilized) None known.

BioOcean® PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) None known.

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution None known.



Specific hazards arising from	۱
the chemical	

BioOcean® anti-Rat CCL5 detect antibody(100X)

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

BioOcean® Rat CCL5 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assav.

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

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

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

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

Hazardous thermal decomposition products

BioOcean® anti-Rat CCL5 detect antibody(100X)

No specific data.

BioOcean® Rat CCL5 Standard (lyophilized) No specific data BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

No specific data.

No specific data.

No specific data.

Special protective actions for fire-fighters

BioOcean® anti-Rat CCL5 detect antibody(100X)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving

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

BioOcean® Rat CCL5 Standard (lyophilized)

BioOcean® Streptavidin-HRP (100x) and Substrate

any personal risk or without suitable training.

Reagent

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.

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

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.

any personal risk or without suitable training.

Special protective equipment for fire-fighters

BioOcean® anti-Rat CCL5 detect

antibody(100X)

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

operated in positive pressure mode.

BioOcean® Rat CCL5 Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and

BioOcean® Stop Solution

Substrate Reagent

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders **Environmental precautions**

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

Methods and materials for containment and cleaning up

Small spill

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

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



Section 7. Handling and storage

Precautions for safe handling Protective measures

BioOcean® anti-Rat CCL5 detect antibody(100X)

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

BioOcean® Rat CCL5 Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and 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

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Put on appropriate personal protective equipment (see Section

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

Advice on general occupational hygiene

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)

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

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

BioOcean® Stop Solution

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

Conditions for safe storage including any incompatibilities BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)

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

BioOcean® Streptavidin-HRP (100x) and 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

Skin protection

Hand protection

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

Body protection

Other skin protection

Respiratory protection

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

Liquid.

Section 9. Physical and chemical properties

BioOcean® anti-Rat CCL5 detect Physical state

antibody(100X) BioOcean® Rat CCL5 Standard (lyophilized) Solid BioOcean® PBS Buffer with Tween 20 (Assay, Liquid. Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Liquid. Substrate Reagent BioOcean® Stop Solution Liquid.

Color BioOcean® anti-Rat CCL5 detect Not available.

antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) Not available. BioOcean® PBS Buffer with Tween 20 (Assay, Not available.

Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and

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

BioOcean® anti-Rat CCL5 detect Not available. Odor antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) Not available. BioOcean® PBS Buffer with Tween 20 (Assay, Not available. Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Not available.

Substrate Reagent BioOcean® Stop Solution Not available.



Flash point	BioOcean® anti-Rat CCL5 detect	Not available.
,	antibody(100X) BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Auto-ignition temperature	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular weight	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Molecular formula	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
рН	BioOcean® anti-Rat CCL5 detect antibody(100X)	7.0-7.2
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	7.0-7.2
	BioOcean® Streptavidin-HRP (100x) and	7.0-7.2
	Substrate Reagent BioOcean® Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean® anti-Rat CCL5 detect	Not available.
	antibody(100X) BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Melting/freezing point	BioOcean® anti-Rat CCL5 detect	Not available.
<i>5. 5.</i>	antibody(100X) BioOcean® Rat CCL5 Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean® Stop Solution	Not available.
Relative density	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.



			A BETTER APPROACH FOR BIOLOGICAL RESEARCH
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.	
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.	
	Substrate Reagent BioOcean® Stop Solution	Not available.	
Vapor pressure	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.	
	BioOcean® Stop Solution	Not available.	
Vapor density	BioOcean® anti-Rat CCL5 detect antibody(100X) BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.	
	BioOcean® Stop Solution	Not available.	
Volatility	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.	
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.	
	Substrate Reagent BioOcean® Stop Solution	Not available.	
Evaporation rate	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.	
	BioOcean® Stop Solution	Not available.	
Viscosity	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.	
	BioOcean® Stop Solution	Not available.	
Solubility	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.	
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.	
	BioOcean® Stop Solution	Not available.	
Physical/chemical properties comments	BioOcean® anti-Rat CCL5 detect antibody(100X)	Not available.	
	BioOcean® Rat CCL5 Standard (lyophilized)	Not available.	
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.	
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.	
	Substrate Reagent BioOcean® Stop Solution	Not available.	
Section 10. Stability and rea	activity		

Section 10. Stability and reactivity

Reactivity

BioOcean® anti-Rat CCL5 detect antibody(100X) No specific test data related to reactivity available for this product or its ingredients.

SDS, BioOcean® Rat CCL5/RANTES ELISA Kit V1



BioOcean® Rat CCL5 Standard (lyophilized)

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

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

BioOcean® Stop Solution

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

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

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

its ingredients.

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

Chemical stability

BioOcean® anti-Rat CCL5 detect

antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent BioOcean® Stop Solution The product is stable.

Possibility of hazardous reactions

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)

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

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

BioOcean® Stop Solution

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

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

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

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

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

Conditions to avoid

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

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 CCL5 detect

antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and

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 CCL5 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 CCL5 Standard (lyophilized)

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

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

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

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

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

BioOcean® Stop Solution

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

should not be produced.



Section 11. Toxicological information

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

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

Aspiration hazard: Not available.

Information on the likely routes of exposure: Not available.

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Potential chronic health effects:

General: Not available.

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

Numerical measures of toxicity Acute toxicity estimates: Not available.

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

Section 12. Ecological information

Toxicity: Not available.

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

Mobility in soil

Soil/water partition: coefficient (Koc)

BioOcean® anti-Rat CCL5 detect antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)

Not available.

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

BioOcean® Streptavidin-HRP (100x) and Substrate

Reagent

BioOcean® Stop Solution

Not available.

Mobility: Not available.

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

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste



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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

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

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

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

Name	0/	EHS	SARA 302 TPQ		SARA 304 RQ	
Name	70	LIIJ	(lbs)	(gallons)	(lbs)	(gallons)
BioOcean® Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1

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

Composition/information on ingredients: No products were found.

State regulations

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

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canada

WHMIS (Canada)

BioOcean® anti-Rat CCL5 detect

antibody(100X)

BioOcean® Rat CCL5 Standard (lyophilized)
BioOcean® PBS Buffer with Tween 20 (Assay,
Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and

Substrate Reagent

Not controlled under WHMIS (Canada).

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

Not controlled under WHMIS (Canada).

A BETTER APPROACH FOR BIOLOGICAL RESEARCH Not controlled under WHMIS (Canada).

BioOcean® Stop Solution

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

CEPA Toxic substances: None of the components are listed

Canada inventory: Not determined.

Section 16. Other information

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



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

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



History

Date of issue/Date of revision: 6/11/2016
Date of previous issue: No previous validation.

Version: 1

Section 16. Other information

Key to abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

("Marpol" = marine pollution)

UN = United Nations

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