

# SAFETY DATA SHEET

BioOcean<sup>®</sup> Rat IL-1α ELISA Kit

## Section 1. Identification

GHS product identifier Code: BioOcean® Rat IL-1α ELISA Kit, EK301A Other means of identification: Not available Trade name: Rat IL-1α 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 IL-1 $\alpha$ detect antibody(100X)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	employees and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean <sup>®</sup> Stop Solution	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture:	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not classified.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not classified.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not classified.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not classified.
GHS label elements		
Signal word	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	No signal word.
Signal Word	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	No signal word.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No signal word.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate	No signal word.
	Reagent BioOcean <sup>®</sup> Stop Solution	No signal word.
Hazard statements	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean <sup>®</sup> Stop Solution	No known significant effects or critical hazards.
Precautionary statements General	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not applicable.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.



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	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean <sup>®</sup> Stop Solution	Not applicable.
Prevention	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not applicable.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not applicable.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not applicable. Not applicable.
	Bioocean Stop Solution	
Response	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not applicable.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not applicable.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean <sup>®</sup> Stop Solution	Not applicable.
Storage	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not applicable.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean <sup>®</sup> Stop Solution	Not applicable.
	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not applicable.
Disposal	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate	Not applicable.
	Reagent BioOcean® Stop Solution	Not applicable.
Supplemental label elements	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	None known.
	BioOcean® Rat IL-1 $\alpha$ 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 <sup>®</sup> Stop Solution	None known.
Hazards not otherwise classified	BioOcean® anti-Rat IL-1 $lpha$ detect antibody(100X)	None known.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean <sup>®</sup> Stop Solution	None known.

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture		
Ingredient name	%	CAS number
BioOcean <sup>®</sup> Rat IL-1α 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 IL-1α 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.



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	BioOcean® Rat IL-1 $\alpha$ 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)	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.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	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.
	BioOcean <sup>®</sup> 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.
Inhalation	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	Remove victim to fresh air and keep at rest in a position comfortable
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	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.
	BioOcean <sup>®</sup> Stop Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay,	Flush contaminated skin with plenty of water. Remove contaminated
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate	clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated
	Reagent	clothing and shoes. Get medical attention if symptoms occur.
	BioOcean <sup>®</sup> Stop Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	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
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	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.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	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
	BioOcean <sup>®</sup> Stop Solution	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 heal	
Eye contact	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	No known significant effects or critical hazards.
,	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean <sup>®</sup> Stop Solution	No known significant effects or critical hazards.
Inhalation	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	No known significant effects or critical hazards. No known significant effects or critical hazards.
		-
Skin contact	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	No known significant effects or critical hazards.



BioOcean <sup>®</sup> Rat IL-1α S	tandard (lyophilized) No known significant effects or critical hazards.
BioOcean® PBS Buffer Diluent or Washing bu	
	n-HRP (100x) and Substrate No known significant effects or critical hazards.
BioOcean <sup>®</sup> Stop Solut	on No known significant effects or critical hazards.
Ingestion BioOcean® anti-Rat IL-	$1\alpha$ detect antibody(100X) No known significant effects or critical hazards.
BioOcean <sup>®</sup> Rat IL-1α S	tandard (lyophilized) No known significant effects or critical hazards.
BioOcean® PBS Buffer Diluent or Washing bu	ffer)
Reagent	n-HRP (100x) and Substrate No known significant effects or critical hazards.
BioOcean® Stop Solut	on No known significant effects or critical hazards.
Over-exposure signs/symptoms Eye contact BioOcean® anti-Rat IL-	1α detect antibody(100X) No specific data.
BioOcean® Rat IL-1α S	
BioOcean® PBS Buffer Diluent or Washing bu	with Tween 20 (Assay, No specific data.
BioOcean® Streptavid Reagent	n-HRP (100x) and Substrate No specific data.
BioOcean <sup>®</sup> Stop Solut	on No specific data.
Inhalation BioOcean® anti-Rat IL-	1α detect antibody(100X) No specific data.
BioOcean <sup>®</sup> Rat IL-1α S	tandard (lyophilized) No specific data.
BioOcean® PBS Buffer Diluent or Washing bu Drows® Charles to A	ffer)
BioOcean® Streptavio Reagent BioOcean® Stop Solut	n-HRP (100x) and Substrate No specific data.
Skin contact BioOcean® anti-Rat IL-	1α detect antibody(100X) No specific data.
BioOcean® Rat IL-1α S	tandard (lyophilized) No specific data.
BioOcean® PBS Buffer Diluent or Washing bu	ffer)
Reagent	n-HRP (100x) and Substrate No specific data.
BioOcean <sup>®</sup> Stop Solut	on No specific data.
Ingestion BioOcean® anti-Rat IL-	1 $\alpha$ detect antibody(100X) No specific data.
BioOcean® Rat IL-1α S	tandard (lyophilized) No specific data.
BioOcean® PBS Buffer Diluent or Washing bu	ffer)
Reagent	n-HRP (100x) and Substrate No specific data.
BioOcean <sup>®</sup> Stop Solut	on No specific data.

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

Notes to physicianTreat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.Specific treatmentsNo specific treatmentProtection of first-aidersNo action shall be taken involving any personal risk or without suitable training.

# Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean <sup>®</sup> Rat IL-1a Standard (lyophilized)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean <sup>®</sup> Stop Solution	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	None known.
	BioOcean <sup>®</sup> Rat IL-1a Standard (lyophilized)	None known.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.



	BioOcean <sup>®</sup> Stop Solution	A BETTER APPROACH FOR BIOLOGICAL RESEARCH None known.
Specific hazards arising from the chemical	BioOcean® anti-Rat IL-1 $\alpha$ detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	In a fire or if heated, a pressure increase will occur and the container
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	may burst. 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. In a fire or if heated, a pressure increase will occur and the container
		may burst.
Hazardous thermal decomposition products	BioOcean® anti-Rat IL-1 $lpha$ detect antibody(100X)	No specific data.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean <sup>®</sup> Stop Solution	No specific data.
Special protective actions for fire-fighters	BioOcean* anti-Rat IL-1 $\alpha$ detect antibody(100X)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
-	BioOcean* Rat IL-1 $\alpha$ Standard (lyophilized)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	BioOcean <sup>®</sup> Stop Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	BioOcean <sup>®</sup> Stop Solution	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipmer For non-emergency personnel	It and emergency procedures 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	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".
Environmental precautions	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 an	id 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.

Protective measures	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section
	BioOcean® Rat IL-1α 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 Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section
Advice on general occupational tygiene	BioOcean® anti-Rat IL-1α detect antibody(100X)	Eating, drinking and smoking should be prohibited in areas where th material is handled, stored and processed. Workers should wash har and face before eating, drinking and smoking. Remove contaminate clothing and protective equipment before entering eating areas. See
	BioOcean® Rat IL-1 $\alpha$ Standard (lyophilized)	also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where th material is handled, stored and processed. Workers should wash ha and face before eating, drinking and smoking. Remove contaminate clothing and protective equipment before entering eating areas. Se
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where t material is handled, stored and processed. Workers should wash ha and face before eating, drinking and smoking. Remove contaminate clothing and protective equipment before entering eating areas. Se
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where ti material is handled, stored and processed. Workers should wash ha and face before eating, drinking and smoking. Remove contaminate clothing and protective equipment before entering eating areas. Se
	BioOcean <sup>®</sup> Stop Solution	also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where t material is handled, stored and processed. Workers should wash ha and face before eating, drinking and smoking. Remove contaminate clothing and protective equipment before entering eating areas. Se also Section 8 for additional information on hygiene measures.
onditions for safe storage ncluding any incompatibilities	BioOcean® anti-Rat IL-1α detect antibody(100X)	Store in accordance with local regulations. Store in original cont protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for u: 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 environment contamination. Store in accordance with local regulations. Store
	BioOcean® Rat IL-1α Standard (lyophilized)	original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original cont protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials (see Section 10) and food an drink. Keep container tightly closed and sealed until ready for u. Containers that have been opened must be carefully resealed a kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environment contamination. Store in accordance with local regulations. Store
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original cont protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for us Containers that have been opened must be carefully resealed an kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environment contamination. Store in accordance with local regulations. Store original container protected from direct coulidation and on
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original cont protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for us Containers that have been opened must be carefully resealed ar kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmenta

BioOcean<sup>®</sup> Stop Solution



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

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits None

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	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 IL-1α detect antibody(100X) BioOcean® Rat IL-1α Standard (lyophilized)	Liquid. Solid
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Liquid.
	BioOcean <sup>®</sup> Stop Solution	Liquid.
Color	BioOcean® anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Odor	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1a Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.



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	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	Not available.
Elach point	BioOcean <sup>®</sup> anti-Rat IL-1α detect	Not available.
Flash point	antibody(100X) BioOcean <sup>®</sup> Rat IL-1α 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 <sup>®</sup> Stop Solution	Not available.
Auto-ignition temperature	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Flammable limits	BioOcean® anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available. Not available.
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	Not available.
	BioOcean <sup>®</sup> anti-Rat IL-1α detect	Not available.
Molecular weight	antibody(100X) BioOcean® Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean <sup>®</sup> Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	Not available.
Molecular formula	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
рН	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	7.0-7.2
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	7.0-7.2 7.0-7.2
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	1.1-1.3
Boiling/condensation point	BioOcean® anti-Rat IL-1α detect antibodv(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Melting/freezing point	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.



Relative density	BioOcean® anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Vapor pressure	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available. Not available.
	Substrate Reagent	
	BioOcean <sup>®</sup> Stop Solution	Not available.
Vapor density	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Volatility	BioOcean® anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ 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 <sup>®</sup> Stop Solution	Not available.
Evaporation rate	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Viscosity	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	Not available.
Solubility	BioOcean® anti-Rat IL-1α detect	Not available.
	antibody(100X) BioOcean <sup>®</sup> Rat IL-1α 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 <sup>®</sup> Stop Solution	Not available.
Physical/chemical properties comments	BioOcean® anti-Rat IL-1α detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1 $\alpha$ Standard (lyophilized)	Not available.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay,	Not available.
	Diluent or Washing buffer) BioOcean <sup>®</sup> Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	Not available.

# Section 10. Stability and reactivity



Section 10. Stability and rea Reactivity	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X) BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized) BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent BioOcean <sup>®</sup> Stop Solution	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	BioOcean <sup>®</sup> anti-Rat IL-1α detect	its ingredients. The product is stable.
	antibody(100X)	
	BioOcean® Rat IL-1a Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	The product is stable. The product is stable. The product is stable.
	BioOcean <sup>®</sup> Stop Solution	The product is stable.
Possibility of hazardous reactions	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	BioOcean® Rat IL-1α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	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® Streptavidin-HRP (100x) and	not occur. Under normal conditions of storage and use, hazardous reactions will reactions will not occur. Under normal conditions of storage and use, hazardous reactions will
	Substrate Reagent BioOcean® Stop Solution	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
Conditions to avoid	BioOcean <sup>®</sup> anti-Rat IL-1α detect	reactions will not occur. No specific data.
	antibody(100X) BioOcean® Rat IL-1α Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	No specific data. No specific data.
	Substrate Reagent BioOcean <sup>®</sup> Stop Solution	No specific data.
Incompatible materials	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)	No specific data.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	No specific data. No specific data.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean <sup>®</sup> Streptavidin-HRP (100x) and	No specific data.
	Substrate Reagent BioOcean® Stop Solution	No specific data.
Hazardous decomposition products	BioOcean® anti-Rat IL-1α 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 IL-1 $\alpha$ 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

#### BETTER APPROACH FOR BIOLOGICAL RESEARCH 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.

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 tox Interactive effects: Not available. Other information: Not available. Section 12. Ecological information	le. xicity estimates: Not available.	(posure
Toxicity: Not available.		
Persistence and degradability: Not availa	ble.	
Bioaccumulative potential: Not available		
Mobility in soil		
Soil/water partition: coefficient ( $K_{oc}$ )	BioOcean <sup>®</sup> anti-Rat IL-1 $\alpha$ detect antibody(100X)	Not available.
	BioOcean <sup>®</sup> Rat IL-1α Standard (lyophilized)	Not available.
	BioOcean <sup>®</sup> PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean <sup>®</sup> Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean <sup>®</sup> Stop Solution	Not available.
Mobility: 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	ΙΑΤΑ
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

#### Section 15. Regulatory information

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

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

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

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304 Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
BioOcean <sup>®</sup> Substrate Reagent	0-1	Yes.	1000	106.1	1000	106.1
with hydrogen peroxide	01	103.	1000	100.1	1000	100.1

#### 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

<b>č</b> ,	
International regulations	
Chemical Weapon Convention List Sche	edules I, II & III Chemicals
Not listed.	
Montreal Protocol (Annexes A, B, C, E)	
Not listed.	
Stockholm Convention on Persistent O	rganic Pollutants
Not listed.	
Rotterdam Convention on Prior Inform	Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on POPs and H	eavy Metals
Not listed.	
Canada	
WHMIS (Canada)	BioOcean <sup>®</sup> anti-Rat IL-1α detect antibody(100X)

Not controlled under WHMIS (Canada).



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

BioOcean® Rat IL-1α Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution

Canadian lists Canadian NPRI: None of the components are listed. CEPA Toxic substances: None of the components are listed Canada inventory: Not determined.

## Section 16. Other information

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



The customer is responsible for determining the PPE code for this material. National Fire Protection Association (U.S.A.)

# Health Flammability Health Special

History Date of issue/Date of revision: 6/11/2016 Date of previous issue: No previous validation. Version: 1 Section 16. Other information Key to abbreviations: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

UN = United Nations

#### Notice to reader

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