

# SAFETY DATA SHEET

# Multisciences Rat IL-4 ELISA Kit

### Section 1. Identification

GHS product identifier Code: Multisciences Rat IL-4 ELISA Kit, EK304

Other means of identification: Not available

Trade name: Rat IL-4 ELISA Kit

Supplier/Manufacturer 108 Xiang Yuan Road, Gongshu Intellect Information Industry Park, Hangzhou

In case of emergency: Multisciences: 400-6721-600

### Section 2. Hazards identification

Multisciences anti-Rat IL-4 detect antibody(100X) **OSHA/HCS** status:

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. Multisciences Rat IL-4 Standard (lyophilized)

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

employees and other users of this product. Multisciences 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

Multisciences Streptavidin-HRP (100x) and

Multisciences Stop Solution

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.

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:

Multisciences anti-Rat IL-4 detect antibody(100X)

Not classified.

Not classified.

Multisciences Rat IL-4 Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Not classified Not classified.

Multisciences Stop Solution

Not classified.

No signal word.

No signal word

**GHS** label elements Signal word

Hazard statements

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

Diluent or Washing buffer)

Multisciences PBS Buffer with Tween 20 (Assay, No signal word

Multisciences Streptavidin-HRP (100x) and No signal word.

Substrate Reagent

Multisciences Stop Solution No signal word.

Multisciences anti-Rat IL-4 detect antibody(100X) Multisciences Rat IL-4 Standard (Ivophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent Multisciences 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

**Precautionary statements** 

Multisciences anti-Rat IL-4 detect antibody(100X)

Not applicable.

Multisciences Rat IL-4 Standard (Ivophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Not applicable. Not applicable

Not applicable

General



Not applicable.

	Waltisciences Stop Solution	Not applicable.
Prevention	Multisciences anti-Rat IL-4 detect antibody(100X)	Not applicable.
	Multisciences Rat IL-4 Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Response	Multisciences anti-Rat IL-4 detect antibody(100X)	Not applicable.
	Multisciences Rat IL-4 Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Storage	Multisciences anti-Rat IL-4 detect antibody(100X)	Not applicable.
	Multisciences Rat IL-4 Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Disposal	Multisciences anti-Rat IL-4 detect antibody(100X)	Not applicable.
- Pro-	Multisciences Rat IL-4 Standard (lyophilized)	Not applicable.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	Multisciences Stop Solution	Not applicable.
Supplemental label elements	Multisciences anti-Rat IL-4 detect antibody(100X)	None known.
	Multisciences Rat IL-4 Standard (lyophilized)	None known.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	None known.
	Multisciences Stop Solution	None known.
Hazards not otherwise classified	Multisciences anti-Rat IL-4 detect antibody(100X)	None known.
	Multisciences Rat IL-4 Standard (lyophilized)	None known.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	None known.
	Multisciences Stop Solution	None known.

Multisciences Stop Solution

# Section 3. Composition/information on ingredients

Substance/mixture: Mixture

 Ingredient name
 %
 CAS number

 Multisciences Rat IL-4 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 Multisciences anti-Rat IL-4 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.



Multisciences Rat IL-4 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

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

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

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

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

#### Inhalation

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Substrate Reagent Multisciences Stop Solution

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

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

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

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

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

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

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

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

Flush contaminated skin with plenty of water. Remove contaminated

#### Skin contact

Multisciences Rat IL-4 Standard (lyophilized)

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

### Ingestion

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

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

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

Eye contact

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

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

No known significant effects or critical hazards.

No known significant effects or critical hazards

No known significant effects or critical hazards.

### Inhalation

Multisciences anti-Rat IL-4 detect antibody(100X) Multisciences Rat IL-4 Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assav. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent Multisciences Stop Solution No known significant effects or critical hazards. No known significant effects or critical hazards No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards



Skin contact	Multisciences anti-Rat IL-4 detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Rat IL-4 Standard (lyophilized)	No known significant effects or critical hazards.
	Multisciences PBS Buffer with Tween 20 (Assay,	No known significant effects or critical hazards.
	Diluent or Washing buffer)  Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	Multisciences Stop Solution	No known significant effects or critical hazards.
Ingestion	Multisciences anti-Rat IL-4 detect antibody(100X)	No known significant effects or critical hazards.
_	Multisciences Rat IL-4 Standard (lyophilized)	No known significant effects or critical hazards.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	No known significant effects or critical hazards.  No known significant effects or critical hazards.
Over-exposure signs/sympto		
Eye contact	Multisciences anti-Rat IL-4 detect antibody(100X)	No specific data.
Lyc contact	Multisciences Rat IL-4 Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and	No specific data.
	Substrate Reagent Multisciences Stop Solution	No specific data.
Inhalation	Multisciences anti-Rat IL-4 detect antibody(100X)	No specific data.
imalation	Multisciences Rat IL-4 Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Skin contact	Multisciences anti-Rat IL-4 detect antibody(100X)	No specific data.
	Multisciences Rat IL-4 Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Ingestion	Multisciences anti-Rat IL-4 detect antibody(100X)	No specific data.
	Multisciences Rat IL-4 Standard (lyophilized)	No specific data.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	Multisciences Stop Solution	No specific data.
Indication of immediate med 11)	lical attention and special treatment needed,	if necessary, see toxicological information (Section
Notes to physician	Treat symptomatically. Contact poison treatment	specialist immediately if large quantities have been ingested or inhaled.
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# Section 5. Fire-fighting measures

Unsuitable extinguishing media

Extin	guish	ing I	media

Specific treatments

Protection of first-aiders

Suitable extinguishing media Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

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

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

No specific treatment

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

None known.

None known.



Multisciences Streptavidin-HRP (100x) and None known Substrate Reagent Multisciences Stop Solution None known. Multisciences anti-Rat IL-4 detect antibody(100X) Specific hazards arising from In a fire or if heated, a pressure increase will occur and the container the chemical Multisciences Rat IL-4 Standard (lyophilized) In a fire or if heated, a pressure increase will occur and the container may burst. Multisciences PBS Buffer with Tween 20 (Assay, In a fire or if heated, a pressure increase will occur and the container Diluent or Washing buffer) may burst. Multisciences Streptavidin-HRP (100x) and In a fire or if heated, a pressure increase will occur and the container Substrate Reagent may burst. In a fire or if heated, a pressure increase will occur and the container Multisciences Stop Solution may burst. Multisciences anti-Rat IL-4 detect antibody(100X) No specific data. Hazardous thermal decomposition products Multisciences Rat IL-4 Standard (lyophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay, No specific data. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No specific data. Substrate Reagent Multisciences Stop Solution No specific data. Special protective actions for Multisciences anti-Rat IL-4 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 fire-fighters any personal risk or without suitable training. Multisciences Rat IL-4 Standard (Ivophilized) 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. Multisciences PBS Buffer with Tween 20 (Assav. 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 Diluent or Washing buffer) any personal risk or without suitable training. Multisciences Streptavidin-HRP (100x) and 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 Substrate Reagent any personal risk or without suitable training. Multisciences 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. Multisciences anti-Rat IL-4 detect Fire-fighters should wear appropriate protective equipment and self-Special protective equipment for antibody(100X) contained breathing apparatus (SCBA) with a full face-piece fire-fighters operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-Multisciences Rat IL-4 Standard (lyophilized) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Multisciences Streptavidin-HRP (100x) and Fire-fighters should wear appropriate protective equipment and self-Substrate Reagent contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Multisciences Stop Solution Fire-fighters should wear appropriate protective equipment and self-

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

operated in positive pressure mode.

contained breathing apparatus (SCBA) with a full face-piece

For emergency responders

Environmental precautions

on appropriate personal protective equipment.

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

and unsuitable materials. See also the information in "For non- emergency personnel". Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

Small spill

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



#### Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomacous 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

Multisciences anti-Rat IL-4 detect antibody(100X)

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

Multisciences Rat IL-4 Standard (Ivophilized)

Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution

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

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

Advice on general occupational hygiene

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (Ivophilized)

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

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences 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

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and Substrate Reagent Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled



Multisciences Stop Solution

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 containnation. 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
Respiratory protection

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

Not available.

# Section 9. Physical and chemical properties

Physical state	Multisciences anti-Rat IL-4 detect antibody(100X) Multisciences Rat IL-4 Standard (lyophilized)	Liquid. Solid
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Liquid.
	Multisciences Stop Solution	Liquid.
Color	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Odor	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.

Multisciences Rat IL-4 Standard (lyophilized)



	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Flash point	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Auto-ignition temperature	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	Not available.
	·	
Flammable limits	Multisciences anti-Rat IL-4 detect antibody(100X) Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Molecular weight	Multisciences anti-Rat IL-4 detect	Not available.
-	antibody(100X) Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Molecular formula	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
рН	Multisciences anti-Rat IL-4 detect	7.0-7.2
P	antibody(100X)	
	Multisciences Rat IL-4 Standard (lyophilized)  Multisciences PBS Buffer with Tween 20	Not available 7.0-7.2
	(Assay, Diluent or Washing buffer)	
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	7.0-7.2 1.1-1.3
		-
Boiling/condensation point	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Melting/freezing point	Multisciences anti-Rat IL-4 detect	Not available.
	antibody(100X) Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer)	



	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Relative density	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Vapor pressure	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Vapor density	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Multisciences Stop Solution	Not available.
Volatility	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Evaporation rate	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution	Not available.
	·	
Viscosity	Multisciences anti-Rat IL-4 detect antibody(100X)  Multisciences Rat II. 4 Standard (heaphilized)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.  Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Solubility	Multisciences anti-Rat IL-4 detect	Not available.
,	antibody(100X) Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Physical/chemical properties comments	Multisciences anti-Rat IL-4 detect antibody(100X)	Not available.
	Multisciences Rat IL-4 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20	Not available.
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent	Not available.

Multisciences Stop Solution

Not available.

# Section 10. Stability and reactivity

Reactivity

Multisciences anti-Rat IL-4 detect

antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Substrate Reagent

Multisciences 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

Multisciences anti-Rat IL-4 detect

antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized) Multisciences PBS Buffer with Tween 20

(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and

Substrate Reagent Multisciences Stop Solution The product is stable.

The product is stable. The product is stable.

The product is stable.

The product is stable.

Possibility of hazardous reactions

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences 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

Multisciences anti-Rat IL-4 detect

antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Substrate Reagent Multisciences Stop Solution No specific data.

No specific data No specific data.

No specific data.

No specific data.

Incompatible materials

Multisciences anti-Rat IL-4 detect

antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Substrate Reagent

Multisciences Stop Solution

No specific data

No specific data No specific data.

No specific data.

No specific data

Hazardous decomposition products

Multisciences anti-Rat IL-4 detect

antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)

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

Multisciences 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. Under normal conditions of storage and use, hazardous

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

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

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



Multisciences Stop Solution

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

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

# 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) Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized) Not available.

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

Multisciences Streptavidin-HRP (100x) and Substrate Not available.

Reagent

Multisciences Stop Solution

Not available.

Not available.

Mobility: Not available.



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

# Section 13. Disposal considerations

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

### Section 14. Transport information

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

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

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

### Section 15. Regulatory information

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

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

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

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

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

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

Composition/information on ingredients: No products were found.

State regulations

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

# Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed. Canada



WHMIS (Canada)

Multisciences anti-Rat IL-4 detect antibody(100X)

Multisciences Rat IL-4 Standard (lyophilized)
Multisciences PBS Buffer with Tween 20

(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Substrate Reagent Multisciences Stop Solution N. d. control

Not controlled under WHMIS (Canada).

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

CEPA Toxic substances: None of the components are listed

Canada inventory: Not determined.

### Section 16. Other information

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



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

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



#### History

Date of issue/Date of revision: 9/11/2016
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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