

SAFETY DATA SHEET

Multisciences Rat sICAM-1/CD54 ELISA Kit

Section 1. Identification

GHS product identifier Code: Multisciences Rat sICAM-1/CD54 ELISA Kit, EK389

Other means of identification: Not available Trade name: Rat sICAM-1/CD54 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

OSHA.	/HCS	status:
USI IA		status.

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

the product. This MSDS should be retained and available for employees and other users of this product.

Multisciences Rat sICAM-1 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

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

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

Substrate Reagent

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 Multisciences Stop Solution 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 sICAM-1 detect

antibody(100X)

Not classified. Not classified.

Multisciences Rat sICAM-1 Standard (lyophilized) Multisciences PBS Buffer with Tween 20 (Assay,

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

Not classified

Substrate Reagent

Not classified.

Not classified.

Multisciences Stop Solution

GHS label elements Signal word

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

No signal word.

Multisciences Rat sICAM-1 Standard (Ivophilized) Multisciences PBS Buffer with Tween 20 (Assay,

No signal word

Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and No signal word

Substrate Reagent Multisciences Stop Solution No signal word No signal word

Hazard statements

Multisciences anti-Rat sICAM-1 detect

antibody(100X) Multisciences Rat sICAM-1 Standard (lyophilized) No known significant effects or critical hazards. 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

No known significant effects or critical hazards.

Multisciences Stop Solution

No known significant effects or critical hazards.

Precautionary statements General

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

Not applicable.

Multisciences Rat sICAM-1 Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Not applicable. Not applicable.



Multisciences Streptavidin-HRP (100x) and Not applicable. Substrate Reagent Multisciences Stop Solution Not applicable. Prevention Multisciences anti-Rat sICAM-1 detect Not applicable. antibody(100X) Multisciences Rat sICAM-1 Standard (lyophilized) Not applicable. Multisciences PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not applicable. Substrate Reagent Multisciences Stop Solution Not applicable. Multisciences anti-Rat sICAM-1 detect Not applicable. Response antibody(100X) Multisciences Rat sICAM-1 Standard (Ivophilized) Not applicable. Multisciences PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not applicable. Substrate Reagent Multisciences Stop Solution Not applicable. Multisciences anti-Rat sICAM-1 detect Not applicable. Storage antibody(100X) Multisciences Rat sICAM-1 Standard (lyophilized) Not applicable. Multisciences PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not applicable. Substrate Reagent Multisciences Stop Solution Not applicable. Multisciences anti-Rat sICAM-1 detect Not applicable. Disposal antibody(100X) Multisciences Rat sICAM-1 Standard (lyophilized) Not applicable. Multisciences PBS Buffer with Tween 20 (Assay, Not applicable. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and Not applicable. Substrate Reagent Multisciences Stop Solution Not applicable. Multisciences anti-Rat sICAM-1 detect None known. Supplemental label elements antibody(100X) Multisciences Rat sICAM-1 Standard (lyophilized) None known. Multisciences PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and None known. Substrate Reagent Multisciences Stop Solution None known. Multisciences anti-Rat sICAM-1 detect None known. Hazards not otherwise antibody(100X) classified Multisciences Rat sICAM-1 Standard (lyophilized) None known. Multisciences PBS Buffer with Tween 20 (Assay, None known. Diluent or Washing buffer)

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

 Ingredient name
 %
 CAS number

 Multisciences Rat sICAM-1 Standard
 99.9-100

Substrate Reagent Multisciences Stop Solution

Multisciences Streptavidin-HRP (100x) and

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.

None known.

None known.

Section 4. First aid measures

Description of necessary first aid measures

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SDS, Multisciences Rat sICAM-1/CD	54 ELISA Kit V1	MULTI SCIENCES 联科生物
Eye contact	Multisciences anti-Rat sICAM-1 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 sICAM-1 Standard (lyophilized)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
	Multisciences 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.
	Multisciences 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	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Multisciences Rat sICAM-1 Standard (lyophilized)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Multisciences PBS Buffer with Tween 20 (Assay,	Remove victim to fresh air and keep at rest in a position comfortable
	Diluent or Washing buffer)	for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	for breathing. Get medical attention if symptoms occur.
	Multisciences 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	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Flush contaminated skin with plenty of water. Remove contaminated
	Multisciences Rat sICAM-1 Standard (lyophilized)	clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated
	Multissianess DBS Buffer with Turon 20 (Assau	clothing and shoes. Get medical attention if symptoms occur.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Multisciences Streptavidin-HRP (100x) and	Flush contaminated skin with plenty of water. Remove contaminated
	Substrate Reagent Multisciences Stop Solution	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 sICAM-1 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
	Multisciences Rat sICAM-1 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.
	Multisciences 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
	Multisciences Streptavidin-HRP (100x) and Substrate Reagent	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
	Multisciences Stop Solution	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 hea	• • • • • • • • • • • • • • • • • • • •
Eye contact	Multisciences anti-Rat sICAM-1 detect antibody(100X)	No known significant effects or critical hazards.
	Multisciences Rat sICAM-1 Standard (lyophilized)	No known significant effects or critical hazards.

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Inhalation

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

Substrate Reagent Multisciences Stop Solution

Multisciences anti-Rat sICAM-1 detect

antibody(100X)
Multisciences Rat sICAM-1 Standard (lyophilized)

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

No known significant effects or critical hazards.



Multisciences Streptavidin-HRP (100x) and No known significant effects or critical hazards. Substrate Reagent Multisciences Stop Solution No known significant effects or critical hazards.

No known significant effects or critical hazards. Skin contact Multisciences anti-Rat sICAM-1 detect antibody(100X)

> Multisciences Rat sICAM-1 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 No known significant effects or critical hazards. Substrate Reagent

Multisciences Stop Solution No known significant effects or critical hazards.

Multisciences anti-Rat sICAM-1 detect No known significant effects or critical hazards. Ingestion

antibody(100X) Multisciences Rat sICAM-1 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 No known significant effects or critical hazards. Substrate Reagent

Multisciences Stop Solution No known significant effects or critical hazards.

Over-exposure signs/symptoms

Multisciences anti-Rat sICAM-1 detect No specific data. Eye contact Multisciences Rat sICAM-1 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.

Inhalation Multisciences anti-Rat sICAM-1 detect No specific data.

antibody(100X) Multisciences Rat sICAM-1 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.

Multisciences anti-Rat sICAM-1 detect No specific data. Skin contact antibody(100X)

> Multisciences Rat sICAM-1 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.

Multisciences anti-Rat sICAM-1 detect No specific data. Ingestion

antibody(100X) Multisciences Rat sICAM-1 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.

Indication of immediate medical 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. No specific treatment Specific treatments

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

Multisciences anti-Rat sICAM-1 detect

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media antibody(100X) Multisciences Rat sICAM-1 Standard (Ivophilized) Use an extinguishing agent suitable for the surrounding fire.

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

Use an extinguishing agent suitable for the surrounding fire.



Multisciences Streptavidin-HRP (100x) and

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

Unsuitable extinguishing media

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

Multisciences Rat sICAM-1 Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

None known.

None known

None known

None known.

None known

Specific hazards arising from the chemical

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

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

Multisciences Rat sICAM-1 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

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

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 Multisciences anti-Rat sICAM-1 detect

antibody(100X)

No specific data.

Multisciences Rat sICAM-1 Standard (lyophilized) No specific data. Multisciences PBS Buffer with Tween 20 (Assay, No specific data.

Diluent or Washing buffer)

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

No specific data

Multisciences Stop Solution

Special protective actions for fire-fighters

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

Multisciences Rat sICAM-1 Standard (lyophilized)

Multisciences PBS Buffer with Tween 20 (Assay,

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

Diluent or Washing buffer)

No specific data. Promptly isolate the scene by removing all persons from the vicinity

of the incident if there is a fire. No action shall be taken involving

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

any personal risk or without suitable training.

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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

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

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

operated in positive pressure mode.

Multisciences Rat sICAM-1 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and

Substrate Reagent

Multisciences Stop Solution

contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

Fire-fighters should wear appropriate protective equipment and self-

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

operated in positive pressure mode.

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

operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders

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 and cleaning up

Small spill

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

Large spill

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

Section 7. Handling and storage

Precautions for safe handling Protective measures

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

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

Multisciences Rat sICAM-1 Standard

(lyophilized) 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 sICAM-1 detect antibody(100X)

Multisciences Rat sICAM-1 Standard (lyophilized)

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 sICAM-1 detect antibody(100X)

Multisciences Rat sICAM-1 Standard (lyophilized)

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

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.



Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

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

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

None

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.

Skin protection

Hand protection

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

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

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

Respiratory protection

Section 9. Physical and chemical properties

Multisciences anti-Rat sICAM-1 detect Liquid. Physical state antibody(100X) Multisciences Rat sICAM-1 Standard Solid

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

Multisciences Streptavidin-HRP (100x) and Substrate Reagent

Multisciences Stop Solution

Liquid. Liquid.

Liquid.

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

Not available.

Color



	Multisciences Rat sICAM-1 Standard	Not available.
	(lyophilized) 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.
Odor	Multisciences anti-Rat slCAM-1 detect	Not available.
	antibody(100X) Multisciences Rat sICAM-1 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.
Flash point	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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.
Auto-ignition temperature	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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.
Flammable limits	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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.
Molecular weight	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 Standard (lyophilized)	Not available.
	Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
Molecular formula	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 Standard	Not available.
	(lyophilized) Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	Multisciences Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent Multisciences Stop Solution	Not available.
рН	Multisciences anti-Rat sICAM-1 detect antibody(100X)	7.0-7.2
	Multisciences Rat sICAM-1 Standard	Not available
	(lyophilized) Multisciences PBS Buffer with Tween 20	7.0-7.2
	(Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and	7.0-7.2
	Substrate Reagent Multisciences Stop Solution	1.1-1.3



Boiling/condensation point	Multisciences anti-Rat sICAM-1 detect	Not available.
	antibody(100X) Multisciences Rat sICAM-1 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.
Melting/freezing point	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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.
Relative density	Multisciences anti-Rat sICAM-1 detect	Not available.
	antibody(100X) Multisciences Rat sICAM-1 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 pressure	Multisciences anti-Rat sICAM-1 detect	Not available.
	antibody(100X) Multisciences Rat sICAM-1 Standard	Not available.
	(lyophilized) 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 sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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 sICAM-1 detect	Not available.
	antibody(100X) Multisciences Rat sICAM-1 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.
Evaporation rate	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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.
Viscosity	Multisciences anti-Rat sICAM-1 detect antibody(100X)	Not available.
	Multisciences Rat sICAM-1 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. Solubility Multisciences anti-Rat sICAM-1 detect Not available. antibody(100X) Multisciences Rat sICAM-1 Standard Not available. (lyophilized) 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 Multisciences anti-Rat sICAM-1 detect Not available. Physical/chemical properties antibody(100X) comments Multisciences Rat sICAM-1 Standard Not available. (lyophilized) 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. Section 10. Stability and reactivity Multisciences anti-Rat sICAM-1 detect No specific test data related to reactivity available for this product or Reactivity antibody(100X) its ingredients. Multisciences Rat sICAM-1 Standard No specific test data related to reactivity available for this product or (lyophilized) its ingredients. Multisciences PBS Buffer with Tween 20 No specific test data related to reactivity available for this product or (Assay, Diluent or Washing buffer) its ingredients. Multisciences Streptavidin-HRP (100x) and No specific test data related to reactivity available for this product or its ingredients. Substrate Reagent Multisciences Stop Solution No specific test data related to reactivity available for this product or its ingredients. The product is stable. Chemical stability Multisciences anti-Rat sICAM-1 detect antibody(100X) Multisciences Rat sICAM-1 Standard The product is stable. (lyophilized) Multisciences PBS Buffer with Tween 20 The product is stable. (Assay, Diluent or Washing buffer) Multisciences Streptavidin-HRP (100x) and The product is stable. Substrate Reagent Multisciences Stop Solution The product is stable. Multisciences anti-Rat sICAM-1 detect Under normal conditions of storage and use, hazardous reactions will Possibility of hazardous reactions antibody(100X) not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will Multisciences Rat sICAM-1 Standard not occur. Under normal conditions of storage and use, hazardous (Ivophilized) reactions will not occur. Under normal conditions of storage and use, hazardous reactions will Multisciences PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Multisciences Streptavidin-HRP (100x) and Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous Substrate Reagent reactions will not occur. 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. Multisciences anti-Rat sICAM-1 detect No specific data. Conditions to avoid antibody(100X) No specific data. Multisciences Rat sICAM-1 Standard (lyophilized) Multisciences PBS Buffer with Tween 20 No specific data (Assay, Diluent or Washing buffer) No specific data Multisciences Streptavidin-HRP (100x) and Substrate Reagent Multisciences Stop Solution No specific data

Multisciences anti-Rat sICAM-1 detect

antibody(100X)

Incompatible materials

No specific data



Multisciences Rat sICAM-1 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

Hazardous decomposition products

Multisciences anti-Rat sICAM-1 detect antibody(100X)

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

Under normal conditions of storage and use, hazardous

should not be produced.

Multisciences Rat sICAM-1 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.

Multisciences 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.

Multisciences Streptavidin-HRP (100x) and

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

Substrate Reagent

should not be produced.

Multisciences Stop Solution

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

Section 11. Toxicological information

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

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

Aspiration hazard: Not available.

Teratogenicity: 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

Eve 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 sICAM-1 detect antibody(100X)

Multisciences Rat sICAM-1 Standard (lyophilized)

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

Multisciences Streptavidin-HRP (100x) and Substrate
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	Mexico	ADR/RID	IMDG	IATA
		Classification	Classification			
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 (lbs)	(gallons)	SARA 304 F (lbs)	RQ (gallons)
Multisciences Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1

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

Composition/information on ingredients: No products were found.



State regulations

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

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canada

WHMIS (Canada)

Multisciences anti-Rat sICAM-1 detect antibody(100X)

Multisciences Rat sICAM-1 Standard

(lyophilized)

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

Substrate Reagent Multisciences Stop Solution Not controlled under WHMIS (Canada).

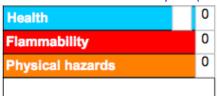
Canadian lists Canadian NPRI: None of the components are listed.

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

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