

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name : Anti-Prion (99) Research Kit
Mat.-No./ Genisys-No. : 06914713001

Ventana material number :

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions : For professional users only.
on use

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Limited
Charles Avenue
Burgess Hill
RH15 9RY West Sussex

E-mail address : -
Telephone : +44 1444 256000
Telefax : +44 1444 256239
Responsible Department :
In case of emergencies: : Health, Safety & +44 1444 256500 or +44
(Roche Diagnostics Ltd.) Environment 7802 260498
- +44 1444 256561 or +44
Product Safety / Vigilance 7710 391653
-
Toxicology 24Hr help-line: : NPIS: +44 844 892 0111
Health Advice 24Hr help-line: : NHS Direct: +44 845 4647
NHS 24: +44 8454 242424

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.
Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R43: May cause sensitization by skin contact.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Hazard statements	:	H317 H319	May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	:	Prevention: P261 P264 P272 P280 Response: P302 + P352 P305 + P351 + P338 P321 P333 + P313 P337 + P313 P363 Disposal: P501	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see supplemental first aid instructions on this label). If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse. Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

Fast Red

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION	Concentration [%]
---------------	-------------------	--------------------------------	-------------------------------	----------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Anti-Prion (99) Research Kit**

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

	Registration number		(EC) No 1272/2008)	
Brij 35	9002-92-0	Xn; R22 Xi; R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	< 5
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

*Naphthol***Classification (REGULATION (EC) No 1272/2008)**

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

*Activator***Classification (REGULATION (EC) No 1272/2008)**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Anti-Prion (99) Research Kit**

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Discovery Antibody Block**Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Brij 35	9002-92-0	Xn; R22 Xi; R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	< 5
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 0.0015 - < 0.06



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

			H410	
--	--	--	------	--

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Discovery Anti-Prion

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

anti-Rb / anti-Ms Alk Phos

Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R43: May cause sensitization by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| In case of skin contact | : If on skin, rinse well with water. |
| In case of eye contact | : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|-----------------------------|
| Symptoms | : No information available. |
|----------|-----------------------------|

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--|
| Treatment | : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. |
|-----------|--|

5. Firefighting measures

5.1 Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet |

5.2 Special hazards arising from the substance or mixture

- | | |
|--------------------------------------|-----------------------------|
| Specific hazards during firefighting | : No information available. |
|--------------------------------------|-----------------------------|

5.3 Advice for firefighters

- | | |
|---|---|
| Special protective equipment for firefighters | : Wear self contained breathing apparatus for fire fighting if necessary. |
| Further information | : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines
Other data : No decomposition if stored and applied as directed.



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

8. Exposure controls/personal protection

Exposure Guidelines

Fast Red

Contains no substances with occupational exposure limit values.

Naphthol

Contains no substances with occupational exposure limit values.

Activator

Contains no substances with occupational exposure limit values.

Discovery Antibody Block

Contains no substances with occupational exposure limit values.

Discovery Anti-Prion

Contains no substances with occupational exposure limit values.

anti-Rb / anti-Ms Alk Phos

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection : Protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<i>Fast Red</i> Appearance	: liquid
Colour	: pink
Odour	: none
pH	: 3.17
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.045 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Naphthol</i> Appearance	: liquid
Colour	: light brown
Odour	: none
pH	: ca. 10.0
Melting point/range	: no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.06 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Activator</i>	
Appearance	: liquid
Colour	: colourless
Odour	: none
pH	: 7.0
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.014 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Discovery Antibody Block</i>	
Appearance	: liquid
Colour	: no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1 . 0

Revision Date 12-06-2012

Print Date 01-29-2013

Odour	: No information available.
Odour Threshold	: no data available
pH	: 6.62
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.115 g/cm3
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
<i>Discovery Anti-Prion</i> Appearance	: liquid
Colour	: no data available
Odour	: No information available.
Odour Threshold	: no data available
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.016 g/cm3
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

anti-Rb / anti-Ms Alk Phos

Appearance	: liquid
Colour	: tan
Odour	: none
pH	: 7.0
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.056 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

Fast Red

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

Naphthol

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

Activator

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

Discovery Antibody Block

Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available

Discovery Anti-Prion

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

anti-Rb / anti-Ms Alk Phos

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Further information: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

11. Toxicological information

11.1 Information on toxicological effects

Fast Red

Components:

Brij 35 :

Acute oral toxicity : LD50 Oral: 1,000 mg/kg, rat

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: Irritating to skin.

: May cause skin irritation in susceptible persons.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Serious eye damage/eye irritation	: Result: Risk of serious damage to eyes.
	: May cause irreversible eye damage.
Respiratory or skin sensitization	: Result: no data available
STOT - single exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: no data available
Further information	: no data available

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Acute oral toxicity	: LD50: 8,290 mg/kg, rat
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: LD50 Dermal: > 7,940 mg/kg, rabbit
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: This information is not available.
Serious eye damage/eye irritation	: rabbit, Result: Moderate eye irritation
Respiratory or skin sensitization	: Result: no data available
STOT - single exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: no data available
Further information	: no data available

Brij 35 :

Acute oral toxicity	: LD50 Oral: 1,000 mg/kg, rat
---------------------	-------------------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1 . 0

Revision Date 12-06-2012

Print Date 01-29-2013

Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Acute toxicity (other routes of administration)	: no data available
Skin corrosion/irritation	: Result: Irritating to skin. : May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	: Result: Risk of serious damage to eyes. : May cause irreversible eye damage.
Respiratory or skin sensitization	: Result: no data available
STOT - single exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: no data available
Further information	: no data available

Discovery Anti-Prion

No ingredients are hazardous according to OSHA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OSHA criteria.

12. Ecological information

12.1 Toxicity

Fast Red

Components:

Brij 35 :

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: LC50: 6.46 mg/l, 48 h, Daphnia magna (Water flea)
Toxicity to algae	: no data available
Toxicity to bacteria	: no data available

Ecotoxicology Assessment

Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: This product has no known eco-toxicological effects.
Toxicity Data on Soil	: Not expected to adsorb on soil.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Other organisms relevant to the environment : no data available

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Toxicity to fish : LC0: ca. 2,400 mg/l, 48 h, Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

Brij 35 :

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : LC50: 6.46 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : no data available

Toxicity to bacteria : no data available

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : This product has no known eco-toxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

Discovery Anti-Prion

No ingredients are hazardous according to OHSA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OHSA criteria.

12.2 Persistence and degradability

Fast Red

Components:

Brij 35 :

Biodegradability : no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

Brij 35 :

Biodegradability : no data available

Discovery Anti-Prion

No ingredients are hazardous according to OHSA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OHSA criteria.

12.3 Bioaccumulative potential

Fast Red

Components:

Brij 35 :

Bioaccumulation : Cyprinus carpio (Carp), Exposure time: 72 h, Bioconcentration factor (BCF): 220

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Bioaccumulation : no data available

Brij 35 :

Bioaccumulation : Cyprinus carpio (Carp), Exposure time: 72 h, Bioconcentration factor (BCF): 220

Discovery Anti-Prion

No ingredients are hazardous according to OHSA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OHSA criteria.

12.4 Mobility in soil

Fast Red

Components:

Brij 35 :

Mobility : no data available

Distribution among : no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

environmental compartments

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

Brij 35 :

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and pathways : no data available

Physico-chemical removability : no data available

Discovery Anti-Prion

No ingredients are hazardous according to OHSA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OHSA criteria.

12.5 Results of PBT and vPvB assessment

Fast Red

Components:

Brij 35 :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Brij 35 :

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Discovery Anti-Prion

No ingredients are hazardous according to OHSA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OHSA criteria.

12.6 Other adverse effects

Fast Red

Components:

Brij 35 :

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Additional ecological information : no data available

Naphthol

No ingredients are hazardous according to OHSA criteria.

Activator

No ingredients are hazardous according to OHSA criteria.

Discovery Antibody Block

Components:

Natriumdihydrogenphosphat-Monohydrat :

Biochemical Oxygen : no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Demand (BOD)
Dissolved organic carbon : no data available
(DOC)
Chemical Oxygen Demand : no data available
(COD)
Adsorbed organic bound : no data available
halogens (AOX)
Additional ecological : no data available
information

Brij 35 :

Biochemical Oxygen : no data available
Demand (BOD)
Dissolved organic carbon : no data available
(DOC)
Chemical Oxygen Demand : no data available
(COD)
Adsorbed organic bound : no data available
halogens (AOX)
Additional ecological : no data available
information

Discovery Anti-Prion

No ingredients are hazardous according to OSHA criteria.

anti-Rb / anti-Ms Alk Phos

No ingredients are hazardous according to OSHA criteria.

13. Disposal considerations

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste
handling site for recycling or disposal.
Do not re-use empty containers.

14. Transport information

14.1 UN number

DOT

Not dangerous goods

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA_C

Not dangerous goods

IATA_P

Not dangerous goods

14.5 Environmental hazards

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Fast Red

REGULATORY INFORMATION



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

OSHA Hazards : Harmful by ingestion.
Moderate skin irritant
Severe eye irritant

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant

Severe eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : acetic acid 5000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 0.1 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	:	water	90 - 100 %
		acetic acid	0.1 - 1 %

New Jersey Right To Know

Components	:	water	90 - 100 %
		magnesium chloride	1 - 5 %
		Brij 35	1 - 5 %

California Prop 65 Components	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
--------------------------------------	---	--	--

Naphthol

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	:	water	90 - 100 %
		trometamol	5 - 10 %

New Jersey Right To Know

Components	:	water	90 - 100 %
		trometamol	5 - 10 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Activator

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	: water	90 - 100 %
	magnesium chloride	1 - 5 %

New Jersey Right To Know

Components	: water	90 - 100 %
	magnesium chloride	1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Discovery Antibody Block

REGULATORY INFORMATION



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

OSHA Hazards : Harmful by ingestion.
Moderate skin irritant
Severe eye irritant

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant

Severe eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : sodium hydroxide 1000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

Acute Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

US State Regulations

Massachusetts Right To Know

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

Components : disodium
hydrogenorthophosphate 5 - 10 %

Pennsylvania Right To Know

Components : water 50 - 70 %
sodium chloride 10 - 30 %
disodium 5 - 10 %
hydrogenorthophosphate
Caseins 1 - 5 %
sodium hydroxide 0.1 - 1 %

New Jersey Right To Know

Components : water 50 - 70 %
sodium chloride 10 - 30 %
disodium 5 - 10 %
hydrogenorthophosphate
Caseins 1 - 5 %
Natriumdihydrogenphosphat
-Monohydrat 1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Discovery Anti-Prion

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : sodium hydroxide 1000 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide
No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Components : sodium azide

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

US State Regulations

Massachusetts Right To Know

Components : sodium azide 0 - 0.1 %

Pennsylvania Right To Know

Components : water 90 - 100 %
sodium hydroxide 0 - 0.1 %
sodium azide 0 - 0.1 %

New Jersey Right To Know

Components : water 90 - 100 %
Caseins 1 - 5 %
non hazardous compounds 1 - 5 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

anti-Rb / anti-Ms Alk Phos

REGULATORY INFORMATION

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1.0

Revision Date 12-06-2012

Print Date 01-29-2013

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components : water

90 - 100 %

New Jersey Right To Know

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Anti-Prion (99) Research Kit

Version 1 . 0

Revision Date 12-06-2012

Print Date 01-29-2013

Components : water 90 - 100 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.

Full text of H-Statements referred to under sections 2 and 3.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.