# SAFETY DATA SHEET
## PROTEIN PREPARATION

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name**

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

**Identified uses**

For research use only.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

Web: www.bio-rad-antibodies.com  
Bio-Rad  
Endeavour House  
Langford Business Park  
Kidlington  
Oxford  
OX5 1GE  
Tel. +44 (0)1865 852700  
antibody_safetydatasheets@bio-rad.com

**Contact person**

Technical Services Manager

### 1.4. Emergency telephone number

**Emergency telephone**

+1 7037415970 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

- Physical hazards: Not Classified
- Health hazards: Not Classified
- Environmental hazards: Not Classified

### 2.2. Label elements

**Hazard statements**

NC Not Classified

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Composition comments**

No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures
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Inhalation
Due to the small packaging, the risk of inhalation is minimal. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Due to the small packaging, the risk of ingestion is minimal.

Skin contact
Due to the small packaging, the risk of skin contact is minimal. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact
Due to the small packaging, the risk of eye contact is minimal. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation
May cause cause coughing or mild irritation.

Ingestion
May cause discomfort if swallowed.

Skin contact
Prolonged skin contact may cause redness and irritation.

Eye contact
May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards
There are no known reactivity hazards associated with this product. No unusual fire or explosion hazards noted.

Hazardous combustion products
Does not decompose when used and stored as recommended.

5.3. Advice for firefighters
Protective actions during firefighting
No specific firefighting precautions known.

Special protective equipment for firefighters
Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions
Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections
Reference to other sections  Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions  Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions  Keep only in the original container. Store at specified temperature. Refer to product label.
Storage class  Refer to product datasheet.

7.3. Specific end use(s)
Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls
Protective equipment
Appropriate engineering controls  Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection  Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
Hand protection  Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection  Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures  Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection  No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance  Solid or liquid (may vary).
Colour  Various colours.
Odour  No characteristic odour.
pH  pH (concentrated solution): 7.4
Melting point  Not determined.
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Initial boiling point and range  
<100 °C @ 760 mm Hg

Flash point  
Not applicable.

Evaporation rate  
Not determined.

Upper/lower flammability or explosive limits  
Not applicable.

Vapour pressure  
Not determined.

Vapour density  
Not determined.

Relative density  
Not determined.

Solubility(ies)  
Soluble in water.

Partition coefficient  
Not determined.

Auto-ignition temperature  
Not determined.

Decomposition Temperature  
Not determined.

Viscosity  
Not determined.

Explosive properties  
Not determined.

Oxidising properties  
Not determined.

9.2. Other information  
None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity  
There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability  
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions  
Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid  
Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid  
Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products  
Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects  
No information available.

Acute toxicity - oral

Notes (oral LD₅₀)  
Not determined.
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#### Skin corrosion/irritation
- Human skin model test: Not determined.

#### Extreme pH
- 7.2

#### Serious eye damage/irritation
- Not determined.

#### Germ cell mutagenicity
- Genotoxicity - in vitro: Not determined.

#### Carcinogenicity
- Not determined.

#### Reproductive toxicity
- Reproductive toxicity - fertility: Not determined.

#### Specific target organ toxicity - single exposure
- STOT - single exposure: Not determined.

#### Specific target organ toxicity - repeated exposure
- STOT - repeated exposure: Not determined.

#### Aspiration hazard
- Not determined.

#### Inhalation
- Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

#### Ingestion
- May cause discomfort if swallowed.

#### Skin contact
- Liquid may irritate skin.

#### Eye contact
- Vapour or spray in the eyes may cause irritation and smarting.

#### Acute and chronic health hazards
- Because of the product's quantity and composition, the health hazard is regarded as low.

#### Route of exposure
- Ingestion. Skin and/or eye contact

### SECTION 12: Ecological Information

#### Ecotoxicity
- There are no data on the ecotoxicity of this product.

12.1. Toxicity

#### Acute aquatic toxicity
- Acute toxicity - fish: Not determined.

12.2. Persistence and degradability

#### Persistence and degradability
- There are no data on the degradability of this product.

12.3. Bioaccumulative potential

#### Bioaccumulative potential
- No data available on bioaccumulation.

#### Partition coefficient
- Not determined.

12.4. Mobility in soil

#### Mobility
- The product is soluble in water.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment
No information available

12.6. Other adverse effects

Other adverse effects
Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes
Not classified.

Rail transport notes
Not classified.

Sea transport notes
Not classified.

Air transport notes
Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

SECTION 15: Regulatory information

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

Guidance
Workplace Exposure Limits EH40.
Approved Classification and Labelling Guide (Sixth edition) L131.
Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

General information
Only trained personnel should use this material.

Revision date
20/09/2018

Revision
3

Supersedes date
06/04/2016

SDS number
10136

Risk phrases in full
Not classified.

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