

SAFETY DATA SHEET ANTIBODY PREPARATION

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

1.1. Product identifier

Product name ANTIBODY PREPARATION

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 Tel. +44 (0) 1865 852700 (9.00 a.m. - 5.00 p.m. Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Health hazards

Physical hazards Not Classified

Environmental hazards Not Classified

Human health This product is harmful if swallowed.

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

levels of disclosure.

SECTION 4: First aid measures

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4.1. Description of first aid measures

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. 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 doctorNo 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

Use protective equipment appropriate for surrounding materials.

for firefighters

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

Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be Usage precautions

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

Occupational exposure limits

SODIUM AZIDE

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m³ Short-term exposure limit (15-minute): WEL 0,3 mg/m³

as NaN3 Sk

ZINC CHLORIDE

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit Sk = Can be absorbed through skin.

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 hands 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.

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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 Liquid.

Colour Various colours.

Odour No characteristic odour.

Melting point Not determined.

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

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

Will not polymerise.

reactions

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.

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10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Other health effects IARC Not Listed.

Acute toxicity - oral

Notes (oral LD₅₀) Not determined.

Skin corrosion/irritation

Human skin model test Not determined.

Extreme pH

Serious eye damage/irritation

Serious eye damage/irritation Not determined.

Germ cell mutagenicity

Genotoxicity - in vitro Not determined.

Carcinogenicity

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

Aspiration hazard Not determined.

General information Knowledge about health hazard is incomplete.

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 entry Ingestion. Skin and/or eye contact

SECTION 12: Ecological Information

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

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12.1. Toxicity

Acute toxicity - fish Not determined.

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: Daphnia pulex (Water flea) - 4.2 mg/l mg/l, Daphnia magna

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.

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).

Not classified.

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

14.1. UN number

Air transport notes

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

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Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

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 22/03/2016

Revision 2

Supersedes date 18/12/2015

SDS number 10089

Risk phrases in full R22 Harmful if swallowed.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.