SAFETY DATA SHEET
ALAMAR BLUE ®

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

1.1. Product identifier

Product name
ALAMAR BLUE ®

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
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.

Skin contact
Due to the small packaging, the risk of skin contact is minimal. Remove contaminated clothing
and rinse skin thoroughly with water.

Eye contact
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 temporary 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
7.2 7.2

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 protective clothing as described in Section 8 of this safety data sheet.

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.

6.4. Reference to other sections

Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet. For waste
disposal, see section 13.
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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

Occupational exposure limits
POTASSIUM HEXACYANOFERRATE (III)
Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ 1 mg/m³ particulate
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Dark. Blue.

Odour
Odourless.
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**Melting point**  Not determined.

**Initial boiling point and range**  Not available.

**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**  ~ 1 g/ml @ °C

**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**  Does not meet the criteria for classification as oxidising.

**9.2. Other information**

**Other information**  None.

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### 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. Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products**  Not known.

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### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Toxicological effects**  Toxicological studies are not yet available.

**Acute toxicity - oral**
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Notes (oral LD₅₀)  Not determined.

Skin corrosion/irritation
Human skin model test  Not determined.

Extreme pH  7.2

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  Not determined.

Aspiration hazard
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  Skin irritation should not occur when used as recommended.

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

Acute and chronic health hazards  7.2

Route of exposure  Ingestion. Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity  The product is not expected to be hazardous to the environment.

12.1. Toxicity
Acute aquatic toxicity
Acute toxicity - fish  Not determined.

12.2. Persistence and degradability
Persistence and degradability  The product is expected to be biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential  The product does not contain any substances expected to be bioaccumulating.

Partition coefficient  Not determined.

12.4. Mobility in soil
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Mobility
The product is soluble in water.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
Not expected to be PBT or vPvB

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
**ALAMAR BLUE ®**

**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.

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