SAFETY DATA SHEET
BrdUTP SOLUTION

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

1.1. Product identifier

Product name: BrdUTP SOLUTION

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

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

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

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 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
**BrdUTP SOLUTION**

**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.

**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 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.

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
Initial boiling point and range
Flash point
Evaporation rate
Upper/lower flammability or explosive limits
Vapour pressure
Vapour density
Relative density
Solubility(ies)
Partition coefficient
Auto-Ignition temperature
Decomposition Temperature
Viscosity
Explosive properties
Oxidising properties
9.2. Other information
Other information

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. Oxidising agents.

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

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**BrdUTP SOLUTION**

<table>
<thead>
<tr>
<th>Notes (oral LD₅₀)</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE oral (mg/kg)</td>
<td>50,000.0</td>
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<tr>
<td>Acute toxicity - inhalation</td>
<td></td>
</tr>
<tr>
<td>ATE inhalation (gases ppm)</td>
<td>350,000.0</td>
</tr>
<tr>
<td>ATE inhalation (vapours mg/l)</td>
<td>1,500.0</td>
</tr>
<tr>
<td>ATE inhalation (dusts/mists mg/l)</td>
<td>250.0</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td></td>
</tr>
<tr>
<td>Human skin model test</td>
<td>Not determined.</td>
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<tr>
<td>Extreme pH</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Genotoxicity - In vitro</td>
<td>Not determined.</td>
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<tr>
<td>Carcinogenicity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not determined.</td>
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<tr>
<td>Reproductive toxicity - fertility</td>
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<tr>
<td>Specific target organ toxicity - single exposure</td>
<td></td>
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<tr>
<td>STOT - single exposure</td>
<td>Not determined.</td>
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<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td></td>
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<tr>
<td>STOT - repeated exposure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not determined.</td>
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<tr>
<td>Inhalation</td>
<td>Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause discomfort if swallowed.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Liquid may irritate skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Vapour or spray in the eyes may cause irritation and smarting.</td>
</tr>
<tr>
<td>Acute and chronic health hazards</td>
<td>Because of the product's quantity and composition, the health hazard is regarded as low.</td>
</tr>
<tr>
<td>Route of entry</td>
<td>Ingestion. Skin and/or eye contact</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>There are no data on the ecotoxicity of this product.</th>
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<tr>
<td>12.1. Toxicity</td>
<td></td>
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<tr>
<td>Acute toxicity - fish</td>
<td>Not determined.</td>
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<tr>
<td>12.2. Persistence and degradability</td>
<td></td>
</tr>
</tbody>
</table>

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**BrdUTP SOLUTION**

**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.

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**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.

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**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.
BrdUTP SOLUTION

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

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

06/07/2016

Revision

1

Supersedes date

31/03/2016

SDS number

20350

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.