Material Safety Datasheet for Endogenous Avidin/Biotin Blocking Kit

1 - Identification of the substance / preparation and of the company / undertaking

Product name: Endogenous Avidin/Biotin Blocking Kit
Supplier identification:
- Abcam plc: 330 Cambridge Science Park, Cambridge, CB4 0FL, UK
  Tel: +44 (0)1223 696000
  Fax: +44 (0)1223 215215
- Abcam Inc: 1 Kendall Square, Ste 341, Cambridge, MA 02139-1517, USA
  Tel: (617) 225-2272 or 888-77-ABCAM (22226) (US toll free)
  Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

2 - Composition / information on hazardous ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Chemical name</th>
<th>% Conc.</th>
<th>CAS#</th>
<th>EC#</th>
<th>Classification (pure ingredient)</th>
<th>Classification (kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avidin Block</td>
<td>Sodium azide</td>
<td>0.08% (w/v)</td>
<td>26628-22-8</td>
<td>247-852-1</td>
<td>T+:R28,R38; N:R50/53</td>
<td>NA</td>
</tr>
<tr>
<td>Avidin</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
<td>Not hazardous</td>
<td>NA</td>
</tr>
<tr>
<td>Biotin Block</td>
<td>Sodium azide</td>
<td>0.08% (w/v)</td>
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<td>T+:R28,R38; N:R50/53</td>
<td>NA</td>
</tr>
<tr>
<td>Biotin</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
<td>Not hazardous</td>
<td>NA</td>
</tr>
</tbody>
</table>

Material Safety Datasheet for Sodium Azide (<1%/153mM)

3 - Hazards identification

Classification

Xn:
- R22 - Harmful if swallowed
- R32 - Contact with acids liberates very toxic gas
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4 - First aid measures

Eye contact: In case of eye contact, flush with copious amounts of water for at least 15 minutes. Seek medical attention if irritation occurs.

Skin contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if necessary.
**Inhalation**
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.

**Ingestion**
If swallowed, wash out mouth with water provided person is conscious. Do NOT induce vomiting. If large quantities of this material are swallowed call a physician immediately.

5 - **Fire fighting measures**

**Suitable extinguishing media**
Suitable: Dry chemical powder. Unsuitable: Do not use water.

**Special risks**
Emits toxic fumes under fire conditions

**Special Protective Equipment**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - **Accidental release measures**

**Personal precautions**
Avoid breathing vapors, mist or gas. Wear appropriate protective clothing.

**Environmental precautions**
Clean up spills properly. Do not let product enter drains.

**Disposal**
Keep in suitable, closed containers for disposal

7 - **Handling and storage**

**Handling**
Avoid inhalation. Avoid prolonged or repeated exposure. Avoid contact with skin and eyes.

**Storage**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Special requirements**
Observe specific storage instructions for product.

8 - **Exposure controls / personal protection**

**Respiratory protection**
Respirator selection must be based upon known or anticipated exposure levels, the hazards of the product and safe working limits of the selecte respirator.

**Hand protection**
Compatible chemical-resistant gloves.

**Eye protection**
Chemical safety goggles.

**Other precautions**
Wash contaminated clothing before reuse. Wash thoroughly after handling.

9 - **Physical and chemical properties**

**Form**
Liquid or lyophilised

**Colour**
Colorless

10 - **Stability and reactivity**

**Stability**
Stable under normal storage and handling conditions. Do not use after expiry date.

**Hazardous decomposition products**
None known.
11 - Toxicological information

**Skin contact**  May cause skin irritation.
**Eye contact**  May cause eye irritation.
**Inhalation**  May cause irritation
**Ingestion**  Harmful if swallowed.

12 - Ecological information

**Ecotoxicological effects**  No data available
**Other**  May be harmful to aquatic life in very low concentrations

13 - Disposal considerations

SUBSTANCE DISPOSAL: Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

14 - Transport information

**ADR/RID**  Not classed as dangerous in the meaning of transport regulations
**IMDG**  Marine Pollutant: No; Severe Marine Pollutant: No
**IATA**  Not dangerous goods

15 - Regulatory information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  67/548/EEC, 1999/45/EC

**Symbol**  Xn:Harmful
**R-phrases**  22 - Harmful if swallowed
32 - Contact with acids liberates very toxic gas.
50/53 - Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
**S-phrases**  28 - After contact with skin, wash immediately with plenty of water
60 - The material and its container must be disposed of as hazardous waste

16 - Other information

**Key/Legend**  ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS# = Chemical Abstract Service number; EC# = EC number (EINECS or ELINCS); EEC = European Economic Community; EU = European Union; IATA = International Air Transport Association

**MSDS revised**  12/05/10

**Disclaimer:** The information contained in this Material Safety Data sheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.
Abcam shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety datasheet.