1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1. Product name
Brucellosis Positive Control

Catalogue nos.
11020005, 11020001

<table>
<thead>
<tr>
<th>Kit</th>
<th>Kit components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brucellosis</td>
<td></td>
</tr>
<tr>
<td>Positive</td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>Package Insert</td>
</tr>
</tbody>
</table>

1.2. Intended use
In Vitro Diagnostic Use.

1.3. Company
Tulip Diagnostics (P) Ltd.
Plot Nos. 92/96, Phase II C,
Verna Industrial Estate,
Verna, Goa 403 722
INDIA
Telephone: +91-832-2783508
Fax: +91-832-2783511
E-mail: tulip@sancharnet.in

1.4. In emergencies
Call your local emergency center

2 COMPONENTS AND HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>HAZARDOUS INGREDIENT</th>
<th>CLASSIFICATION SUBSTANCE</th>
<th>EINECS NR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brucellosis Positive Control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cat No.: 11020005, 11020001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1 % Sodium azide (NaN$_3$)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T+; R28-32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N; R50-53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>247-852-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 HAZARDS IDENTIFICATION

According to 1999/45/EG, the preparation is classified as dangerous.

<table>
<thead>
<tr>
<th>CLASSIFICATION PREPARATION</th>
<th>RISKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brucellosis Positive Control</td>
<td></td>
</tr>
<tr>
<td>Cat No.: 11010005, 11010001</td>
<td></td>
</tr>
<tr>
<td>Harmful if swallowed</td>
<td></td>
</tr>
</tbody>
</table>

4 FIRST AID MEASURES

Compiled by: Tulip Diagnostics P Ltd
Plot No 92/96, phase IIc, Verna Industrial Estate, Verna, Goa, India
Eye contact: - Rinse immediately with water for at least 15 minute. Assure adequate flushing by separating the eyelids with fingers.
- Do not apply neutralizing agents
- Consult a doctor/medical service

Skin contact: - Rinse with water
- Consult a doctor/medical service if irritation persists

After inhalation: - Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration
- Consult a doctor/medical service if breathing problems develop

After ingestion: - Never give water to an unconscious person
- Wash out mouth with water provided person is conscious.
- Do not induce vomiting
- Consult a doctor/medical service if you feel unwell

5  FIRE FIGHTING MEASURES

Suitable extinguishing media: - All non combustible extinguishing media allowed
- For surrounding fires: all extinguishing media allowed

Unsuitable extinguishing media: - No data available

Special exposure hazards: - On heating/burning: formation of small quantities of nitrous vapors, carbon monoxide, carbon dioxide
- Combustible liquid.
- Emits toxic fumes under fire conditions.

Instructions: - Take account of toxic firefighting water
- Use firefighting water moderately and contain it

Special protective equipment for firefighters: - Heat/fire exposure: compressed air/oxygen apparatus
- Heat/fire exposure: gas-tight suit

6  ACCIDENTAL RELEASE MEASURES

Personal protection: see 8

Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Contain leaking substance, pump over in suitable containers
- Plug the leak, cut off the supply
- Dam up the liquid spill

Clean-up:
- Take up liquid spill into absorbent material
- Scoop absorbed substance into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
  - Wash clothing and equipment after handling

7  HANDLING AND STORAGE

Handling:
- Observe normal hygiene standards
- Do not discharge the waste into the drain
- Remove and clean contaminated clothing

Storage:
- Provide for a tub to collect spills
- Meet the legal requirements
- Keep away from: heat sources, acids
- Storage temperature: see component label
- Keep tightly closed
- Keep away from heat, sparks and open flame.
- Store in a cool dry place.

Specific purposes:
- NA

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits

<table>
<thead>
<tr>
<th>Sodium Azide:</th>
<th>mg/m³</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV-TWA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TLV- STEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TLV-Ceiling</td>
<td>0.29 (NaN₃)</td>
<td>0.11 (HN₃)</td>
</tr>
<tr>
<td>OES-LTEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>OES- STEL</td>
<td>0.3 (NaN₃)</td>
<td>-</td>
</tr>
<tr>
<td>MAK</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>TRK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-TGG 8h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-TGG 15min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-Ceiling</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>VMA 8h</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>VMA 15min</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>GWBB 8h</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>GWBB 15min</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Momentary value</td>
<td>0.29</td>
<td>0.11</td>
</tr>
<tr>
<td>EC</td>
<td>0.1</td>
<td>-</td>
</tr>
<tr>
<td>EC- STEL</td>
<td>0.3</td>
<td>-</td>
</tr>
</tbody>
</table>

8.2 Control of Exposure

8.2.1 Exposure to persons
Respiratory Protection - Insufficient ventilation: wear respiratory protection
Hand Protection - Gloves – compatible chemical resistant gloves
Eye Protection - Face shields
Skin Protection - Protective Clothing

8.2.2 Exposure to environment

Azide:
Aquatic Classification: N; R50-53 Very toxic to aquatic organisms.
May cause long term adverse effects in the aquatic environment
Ozone Classification: No data available
The substance is considered as not bioaccumulative: Log Pow = NA
BCF = NA
Not Readily degradable

9 PHYSICAL AND CHEMICAL PROPERTIES

Brucellosis Positive Control: Liquid

10 STABILITY AND REACTIVITY

Stability: The component is stable until expiry date if stored in specified conditions (see label)
Reactivity/Hazardous decomposition products: No hazardous decomposition products are formed in high quantities
Conditions/Materials to avoid: Keep away from metals and acids (Component contains azide)

11 TOXICOLOGICAL INFORMATION

Sodium Azide:

Toxicity and effects
Acute toxicity: LD50 oral rat : 27 mg/kg
LD50 dermal rabbit : 20 mg/kg
Acute effects: Harmful if swallowed
Chronic toxicity: Carcinogenicity (TLV) : A4

Routes of exposure
Ingestion, inhalation, eyes and skin
Caution! These components contain a substance that is absorbed through the skin (sodium azide).

12 ECOLOGICAL INFORMATION

Aquatic toxicity
Sodium azide: - LC50 (96 h) : 0.8 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
- LC50 (96 h) : 0.7 mg/l (LEPOMIS MACROCHIRUS)

Compiled by: Tulip Diagnostics P ltd
Plot No 92/96, phase IIc, Verna Industrial Estate, Verna, Goa, India
- LC50 (48 h) : 9 mg/l (GAMMARUS SP.)

**Other information**
- Effect on the ozone layer: Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect: No data available
- Effect on waste water purification: No data available

**13 WASTE DISPOSAL CONSIDERATIONS**


*Disposal methods*:
- The component must be considered as hazardous waste. It should be disposed of following local regulations.
- Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

**14 TRANSPORT INFORMATION**

No restrictions.

**REGULATORY INFORMATION**

Classification according to directives 67/548/EEC, 1999/45/EC.

**Kits** 11020005, 11020001 (Containing Azide)

Xn

R22 S23-46-61

R22: Harmful if swallowed
S23: Do not breathe vapour
S46: If swallowed, seek medical advice immediately and show this container or label
S61: Avoids release to the environment. Refer to special instructions/safety data sheets.

**15 OTHER INFORMATION**

This product is designed for use by professionals.

The animal source material included in this lot are considered to be free for risk for BSE/CJD and other zoonosis and judged to be non-existent based on:

---

Compiled by: Tulip Diagnostics P ltd
Plot No 92/96, phase IIc, Verna Industrial Estate, Verna, Goa, India
The materials used from animal origin are sources from NON – BSE countries (Certificate available). But handling of reagent serum or plasma specimens should be in accordance with local safety procedure.

Risk phrases referred to in paragraph 2 & 3:
R22: Harmful if swallowed
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
R28: Very toxic if swallowed
R32: Contact with acids liberates very toxic gas
R34: Causes burns
R40: Limited evidence of a carcinogenic effect
R43: May cause sensitization by skin contact.
R50: Very toxic to aquatic organisms
R53: May cause long-term adverse effects in the aquatic environment

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. It remains the user’s own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

MSDS established : 2005-09-30
Revision number : 0