



**1. INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

1.1. Product name FEBRILE ANTIGEN SET

**Kit components**

Catalogue No	Antigen suspension	Positive control	Negative Control
105910065	<i>S.typhi</i> 'O' <i>S.typhi</i> 'H' <i>S.paratyphi</i> 'AH' <i>S.paratyphi</i> 'BH' <i>Brucella Abortus</i> <i>Proteus OX19</i>	1 ml	1ml
Mixing Sticks Ladder	4 No's		
Dispenser PP Tubes	50 No's		
Rubber Teat	1 No		
Slide	1 No		
Package Insert	1 No		

1.2. Intended use In Vitro Diagnostic Use.

1.3. Company Tulip Diagnostics (P) Ltd.  
Plot No. Utility VIII, Phase IIIB,  
Verna Industrial Estate,  
Verna, Goa 403 - 722  
INDIA  
Telephone : +91-832-6624555  
Fax : +91-832-2783511  
E-mail : [sales@tulipgroup.com](mailto:sales@tulipgroup.com)

1.4 In emergencies :Call your local emergency center.

**2. HAZARDOUS IDENTIFICATION**

- 2.1 Classification of the substances or mixture  
Classification according to regulate (EC) No. 1272/2008  
The Mixture is Classified non Hazardous according to regulation (EC) No. 1272/2008
- 2.2 Label Elements  
Labelling according to Regulation (EC) No. 1272/2008  
Hazard pictograph :None  
Signal Word :None  
Hazard statements :None
- 2.3 Other hazards  
None



### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

a) Febrile Reagents Contains 0.1% Sodium Azide (100%) (cas No -26628-22-8) (EC no-247-852-1) The Classification of Sodium Azide (100%) according to Regulation (EC) no. 1272/2008 is Acute toxicity 2\*, Aquatic acute 1 Aquatic chronic 1.H300,H400,H410.

b) And contains 0.01% Thimerosal (cas No - 54-64-8) (EC No - 200-210 - 4 )  
The classification of (0.01%) according to regulation (EC) no.1272/2008 is H317,H413.

### **4. FIRST AID MEASURES**

*Eye contact:-* Rinse immediately with water. 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 swallowed :-* Wash out mouth with plenty of water, Drink plenty of water. Call a doctor or medical service.

### **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  
***component containing formaldehyde:***

*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

#### ***component containing formaldehyde:***

- 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 Control parameters**

Does not contains substance with exposure limit values.

### **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 bio accumulative: Log Pow = NA

BCF = NA

Not Readily degradable



**Formaldehyde:**

Aquatic Classification : Not classified.

Ozone Classification: No data available.

The substance is considered as not bioaccumulative: Log Pow = NA  
BCF = NA  
Readily degradable

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Antigen suspensions : Liquid  
Positive Control : Liquid  
Odour : Not specific  
Odour threshold : No data available  
Conductivity : 10-20mS/cm

**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)

***Component containing formaldehyde:***

*Reactivity/Hazardous decomposition products:* Hazardous decomposition products: carbon monoxide, carbon dioxide.

*Conditions/Materials to avoid:* Strong oxidizing agents, Incompatible with: aniline, phenol, isocyanates, anhydrides, strong acids, strong bases, amines, peroxides, acid chlorides, acid anhydrides, alkali metals, reducing agents.

**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

**Thimerosal**

**Toxicity and effects**

*Acute toxicity:* LD50 oral rat : 75 mg/kg  
LC50 : NE



*Acute effects:* Harmful if swallowed

**Routes of exposure**

Ingestion, inhalation, eyes and skin

Caution! These components contain a substance that is absorbed through the skin (sodium azide).

**Formaldehyde:**

**Toxicity and effects**

*Acute toxicity:* Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Exposure can cause: coughing, chest pains, difficulty in breathing. Gastrointestinal disturbances. May cause convulsions. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

*Chronic toxicity:* Carcinogenicity (TLV) : A4  
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification.  
May alter genetic material.  
Carc. Cat. 3

**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)  
- LC50 (48 h) : 9 mg/l (GAMMARUS SP.)

**Thimerosal:**

The ecological information for the dilute thimerosal has not been thoroughly investigated : however mercury and its compound are expected to significantly bioaccumulate . So any waste must be handled as dangerous waste.

**Other information**

- Effect on the ozone layer: Not dangerous for the ozone layer  
- Greenhouse effect: No data available  
- Effect on waste water purification: No data available

*Formaldehyde:* BOD 5: 60%



### **13. WASTE DISPOSAL CONSIDERATIONS**

*Provisions relating to waste:* Hazardous waste (91/689/EEC).

*Packaging/container:* Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

*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.

### **15. REGULATORY INFORMATION**

No specific regulation.

### **16. OTHER INFORMATION**

The following Hazard statements refer to the classification of the components (Pure Substances 100% ) and not the classification of the mixture .

Labels - none required due to dilution .

H300 - fatal if swallowed .

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H317 - May cause an allergic Skin reaction.

H413 - May cause long lasting harmful effects to aquatic life.

EUH032 - Contact with acids liberates very toxic gas .

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 zoonoses and judged to be non existent based on :

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

The information provided on this SDS 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



**Tulip Diagnostics (P) Ltd.**

## **SAFETY DATA SHEET**

(According to CLP regulation (EC) No 1272/2008,  
EC No 1907/2006 article 31)  
Product :Febrile Antigen Set  
Doc. No. SDS/438

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.

**SDS established** : 2022-02-24

**Revision number** : 01