

**MATERIAL SAFETY DATA SHEET**

(According to 2001/58/EC)

Product: Erybank Anti-Human IgG

Doc. No.: MSDS/116

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

- 1.1. Product name Erybank Anti-Human IgG
- Catalogue No. 10240002
- Kit components Antibodies against Human IgG  
Package Insert
- 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 : +91-832-6624555  
Fax : +91-832-2783511  
E-mail : [tulipvkn@sancharnet.in](mailto:tulipvkn@sancharnet.in)
- 1.4. In emergencies Call your local emergency center

**2. COMPONENTS AND HAZARDOUS INGREDIENTS**

KIT COMPONENT	HAZARDOUS INGREDIENT	CLASSIFICATION SUBSTANCE	EINECS NR.
Antibodies against Human IgG	Material from animal origin 0.1 % Sodium azide (NaN <sub>3</sub> )	T+; R28-32 N; R50-53	247-852-1

**3. HAZARDS IDENTIFICATION**

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

CLASSIFICATION PREPARATION	RISKS
Xn; R22	Harmful if swallowed Human material is potentially infectious

#### 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 ingestion:* - Never give water to an unconscious person  
- 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
- 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

*Specific purposes:*

- NA

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Exposure limits**

**Sodium Azide:**

	mg/m <sup>3</sup>	ppm
TLV-TWA	-	-
TLV-STEL	-	-
TLV-Ceiling	0.29 (NaN <sub>3</sub> )	0.11 (HN <sub>3</sub> )
OES-LTEL	-	-
OES-STEL	0.3 (NaN <sub>3</sub> )	-
MAK	0.2	
TRK		
MAC-TGG 8h		
MAC-TGG 15min		
MAC-Ceiling	0.3	
VMA 8h	-	-
VMA 15min	0.3	0.1
GWBB 8h	-	-
GWBB 15min	-	-
Momentary value	0.29	0.11
EC	0.1	-
EC-STEL	0.3	-

**8.2 Control of Exposure**

**8.2.1 Exposure to persons**

*Respiratory Protection* - Insufficient ventilation: wear respiratory protection

*Hand Protection* - Gloves

*Eye Protection* - Face shields

*Skin Protection* - Protective Clothing

**8.2.2 Exposure to environment**

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**

Erybank Anti-Human IgG: Green colour liquid/ Colourless clear 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)
- 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

*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

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

Contains sodium azide

Xn



Harmful

- 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.

## 16. OTHER INFORMATION

This product is designed for use by professionals.

The material from animal source included in this kit are considered and judged to be free from risk of BSE/CJD and other zoonoses based on :

The use of BSA from sources in non-BSE countries (certificate available). But the 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

R28: Very toxic if swallowed

R32: Contact with acids liberates very toxic gas

R50: Very toxic to aquatic organisms

R53: May cause long-term adverse effects in the aquatic environment

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