Tulip Diagnostics (P) Ltd.

## **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
1.4.	In emergencies	Call your local emergency center

#### 2. COMPONENTS AND HAZARDOUS INGREDIENTS

KIT COMPONENT	HAZARDOUS INGREDIENT	CLASSIFICATION SUBSTANCE	EINECS NR.
	e	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

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## 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	<i>n</i> :- 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

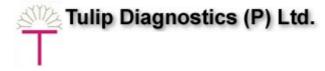
## 7. HANDLING AND STORAGE

### 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



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- 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
Eye Protection	- Face shields

#### 8.2.2 Exposure to environment

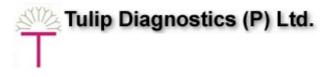
 Aquatic Classification: N; R50-53
 Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment

 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



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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)
		0.7 mg/l (LEPOMIS MACROCHIRUS)
	· · ·	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

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## 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



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



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### **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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