



**GTi DIAGNOSTICS®**

Good science starts with people.®

# MATERIAL SAFETY DATA SHEET

(Based on Directive 91/155/EEC et seq.)

Art. Code : AHG and S-AHG

Product Name: Goat Anti-Human Kappa Serum

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

- 1.1 Product name Goat Anti-Human Kappa Serum
- Catalog # AHG and S-AHG
- 1.2 Company GTI DIAGNOSTICS  
20925 Crossroads Circle, Suite 200  
Waukesha, WI 53186-4054, USA  
(262) 754-1000 OR 1-800-233-1843
- 1.3 In emergencies After normal business hours, weekends, and holidays:  
Call your local emergency center.  
For Chemical Emergency Spill Leak Fire Exposure  
or Accident call CHEMTREC  
Domestic North America: 800-424-9300  
International: 703-527-3887 (collect calls accepted)

## 2. HAZARDS IDENTIFICATION

Animal proteins are potentially infectious.

## 3. COMPONENTS AND HAZARDOUS INGREDIENTS

Component	Hazardous Ingredient	Classification Substance	EINECS NR.
AHG	Contains material of goat origin. <0.1% Sodium azide (NaN <sub>3</sub> )	T+, N, R28-32-50/53	247-852-1

## 4. FIRST AID MEASURES

- Eye contact:*
- Rinse immediately with water for 15 minutes
  - Do not apply neutralizing agents
  - Consult a doctor/medical service if irritation persists
- Skin contact:*
- Rinse with plenty of water
  - Consult a doctor/medical service if irritation persists
- After ingestion:*
- Never give water to an unconscious person
  - Give nothing (little) to drink
  - Consult a doctor/medical service if you feel unwell



**GTi DIAGNOSTICS®**

Good science starts with people.®

# MATERIAL SAFETY DATA SHEET

(Based on Directive 91/155/EEC et seq.)

Art. Code : AHG and S-AHG

Product Name: Goat Anti-Human Kappa Serum

## 5. FIRE FIGHTING MEASURES

Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

Not Applicable

## 7. HANDLING AND STORAGE

*Handling:*

- Observe normal hygiene standards
- Discharge according to local regulations
- Remove and clean contaminated clothing
- Handle and open the container with care

*Storage:*

- Keep container tightly closed
- Meet the legal requirements
- Keep away from: heat sources, combustible materials, acids, metals
- Storage temperature: see component label

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Limits

Chemical/Component	TLV/NIOSH REL	OSHA PEL
Sodium azide (as $\text{NaN}_3$ )	0.3 $\text{mg}/\text{m}^3$ ACGIH TLV-CL	Not listed
Sodium azide (as $\text{HN}_3$ )	0.1 ppm	Not listed

Information in above table from NIOSH Pocket Guide to Chemical Hazards, 2003.

### 8.2 Control of Exposure

#### All Kit Components

- Eye protection:* - Safety glasses or face shield  
*Hand protection:* - Protective Gloves  
*Skin protection:* - Protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid (at room temperature)

Clear and slightly yellow to amber



**GTi DIAGNOSTICS®**

Good science starts with people.®

## MATERIAL SAFETY DATA SHEET

(Based on Directive 91/155/EEC et seq.)

Art. Code : AHG and S-AHG

Product Name: Goat Anti-Human Kappa Serum

### 10. STABILITY AND REACTIVITY

AHG and S-AHG is stable until expiry date if stored and handled as specified (see label).

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity:

Sodium azide: LD50 oral rat : 27 mg/kg  
LD50 dermal rabbit : 20 mg/kg

#### Chronic toxicity:

Sodium azide: Carcinogenicity (TLV) : A4

#### Routes of exposure

Ingestion, inhalation, eyes and skin

#### Acute effects/symptoms

Due to extremely small quantities: none expected

#### Chronic effects

Component does not contain substances with a known chronic effect (e.g. carcinogenicity, mutagenicity, toxicity to reproduction)

### 12. ECOLOGICAL INFORMATION

#### Aquatic toxicity

Sodium azide -LC50 (96h) : 0.8 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)  
-LC50 (96h) : 0.7 ml/l (LEPOMIS MACROCHIRUS)  
-LC50 (48h) : 9 mg/l (GAMMARUS SP.)

#### Other information

- WGK: 1 (Classification based on the components as per Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- 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)



**GTi DIAGNOSTICS®**

Good science starts with people.®

## MATERIAL SAFETY DATA SHEET

(Based on Directive 91/155/EEC et seq.)

Art. Code : AHG and S-AHG

Product Name: Goat Anti-Human Kappa Serum

### *Disposal methods:*

- AHG and S-AHG must be considered as hazardous waste. It should be disposed of according to local regulations.
- Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

### 14. TRANSPORT INFORMATION

Ship frozen on dry ice.

### 15. REGULATORY INFORMATION

Classification according to directives 67/548/EEC and 1999/45/EC identifies that this product is not dangerous.

### 16. OTHER INFORMATION

This product is designed for use by professionals.

All animal products and derivatives have been collected from healthy animals.

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 a 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.

Current Version : 2010-11-29  
Revision number : 2  
MSDS established : 2003-02-11