



GTi DIAGNOSTICS®

Good science starts with people.®

MATERIAL SAFETY DATA SHEET

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

Art. Code : See 1.1

Product Name: Human Sera

1. INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

- 1.1 Product name Human Sera (HLA Antisera, Pooled Human Sera, AHG Positive Control, HLA Negative Control, DonorScreen Validation Sample Set, DonorScreen External Control Set, PAK LX™ Sample Set)
- Catalog # AS00, AS01, AS07, AS14, AS19, AS30, AS99, ASBR, ASNC, PHS-100, PC-AHG, NC-PHS, AN30#01, AN30#06, AN30#14, AN30#15, AN30#23, AN30#24, DSVS, DSEC, PHS-N100, PHS-N5, SPC-AHG, PLXVS
- Kit components Human Sera
- 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

Harmful if swallowed.

Animal proteins are potentially infectious.

Human sera is potentially infectious.

Contains material of human origin. Although these materials have been tested for HBsAg, anti-HCV and anti-HIV-1/2 and have been found not reactive, they should be considered as potentially infectious.

3. COMPONENTS AND HAZARDOUS INGREDIENTS

Component	Hazardous Ingredient	Classification Substance	EINECS NR.
Human Sera	Contains material from human origin May contain material of bovine origin Low amounts of Sodium azide (NaN ₃)	T+, N, R28-32-50/53	247-852-1



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4. FIRST AID MEASURES

All Components

- 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

5. FIRE FIGHTING MEASURES

Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal protection: see 8

Environmental precautions:

- Prevent soil and water pollution
- Discharge according to local regulations

Clean-up:

- Take up liquid spill into absorbent material
- Discharge of absorbed material according to local regulations
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. HANDLING AND STORAGE

All Components

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



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limits

Chemical/Component	TLV/NIOSH REL	OSHA PEL
Sodium azide (as NaN ₃)	0.3 mg/m ³ ACGIH TLV-CL	Not listed
Sodium azide (as 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

Human Sera

Liquid (at room temperature)

Solid (when frozen)

10. STABILITY AND REACTIVITY

Stability: All components are 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 (Azide containing component)

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

Target Organ(s): nerves, heart, brain, laboratory experiments have shown mutagenic effects.

Routes of exposure

Ingestion, inhalation, eyes and skin

Caution! Component contains a substance that may be absorbed through the skin



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Acute effects/symptoms

Sodium azide containing component:

- May cause nausea, headache, vomiting. Experiments have shown animals to produce hypotensive effects, demyelination of myelinated nerve fibers in the CNS, testicular damage, blindness, attacks of rigidity, hepatic and cerebral effects.

Chronic effects

See Chronic toxicity.

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

- 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)

Disposal methods:

- Human Sera is potentially infectious. It should be disposed of following established safety procedures and local regulations.
- Human Sera 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.



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15. REGULATORY INFORMATION

Classification according to directives 67/548/EEC and 1999/45/EC

Not Applicable

16. OTHER INFORMATION

This product is designed for use by professionals.

The Human Sera aliquots have been tested by FDA approved methods and found negative for HBsAg, anti-HCV and anti-HIV-1/2. No known method can offer complete assurance that human blood derivatives will not transmit hepatitis, AIDS or other infections. Therefore, handling of serum specimens should be in accordance with local safety procedures.

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.

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