

MATERIAL SAFETY DATA SHEET

(In compliance with 29 CFR 1910.1200 and based on Directive 91/155/EEC and 93/112/EC et seq.)

Product Name: SeraClean™

1. INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

- 1.1 Date:** December 21, 2006
- Product Name:** SeraClean™
- Intended Use:** Reduce the high background signal found in some sera caused by nonspecific binding of human serum components in Luminex bead based antibody assays.
- Catalog Numbers:** 628222 - SeraClean™
- 1.2 Company** Tepnel Lifecodes
550 West Avenue
Stamford, CT 06902 USA
(203) 328-9500
- 1.3 In emergencies:** CHEMTREC 1-800-424-9300 (24 Hours, 7 days/week)

2. INFORMATION ON INGREDIENTS

Hazardous Ingredients	Classification Substance	EINECS NR.
0.1 % Sodium Azide (NaN ₃) Contains material of animal origin	T+, N, R28-32-50/53 (CAS # 26628-22-8)	247-852-1

3. HAZARDS IDENTIFICATION

Harmful if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Animal proteins are potentially infectious.

Sodium Azide CAS 26628-22-8, EC: 247-852-1

Pursuant to United States OSHA Regulations 29 CFR Part 1910.1200, the materials of animal origin in this product are not considered hazardous. However, as with all animal derivatives, universal handling precautions are recommended.

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 water
-Remove clothing before washing
-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
-Give nothing (little) to drink
-Consult a doctor/medical service if you feel unwell

5. FIRE FIGHTING MEASURES:

- Suitable extinguishing media:* - All non combustible 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 fire fighting 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
 - 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

- 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, and 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 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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Opaque to Cloudy Liquid

10. STABILITY AND REACTIVITY

- Stability:* 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 components)

11. TOXICOLOGICAL INFORMATION:

Acute toxicity:

<i>Sodium azide:</i>	LD50 oral rat	: 27 mg/kg
	LD50 dermal rat	: 20 mg/kg
	LD50 dermal rat	: > 10,000 mg/kg

Chronic toxicity:

<i>Sodium azide:</i>	Carcinogenicity (TLV)	: A4
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Routes of exposure

Ingestion, inhalation, eyes and skin

Caution! Most components contain (a) substance(s) that are absorbed through the skin.

Acute effects/symptoms

Harmful if Swallowed

Chronic effects

Prolonged or repeated exposure to material may cause the following: Hypotension, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, and attacks of rigidity. Material may cause brain and liver damage. There is limited evidence that Sodium Azide is tumorigenic in laboratory animals. There is also limited evidence that Sodium Azide is mutagenic in laboratory cell cultures. Until further testing has been done, Sodium Azide should be treated as a possible mutagen and tumorigen in humans.

To the best of knowledge the chemical, physical, and toxicology properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

<i>Sodium azide:</i>	-LC50 (96h):	0.8 mg/l (SALMO GAIIRDNERI/ONCORHYNCHUS MYKISS)
	-LC50 (96h):	0.7 mg/l (LEPOMIS MACROCHIRUS)
	-LC50 (96h):	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 wastewater 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:

- Patient sample and SeraClean beads are potentially infectious. They should be disposed of following established safety precautions and local regulations.

- Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

14. TRANSPORT INFORMATION

No restrictions.

15. REGULATORY INFORMATION

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

Contains: Sodium azide

R22	:Harmful if swallowed
R52/53	:Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S23	:Do not breathe vapour
S46	:If swallowed, seek medical advice immediately and show this container or label
S61	:Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

This product is designed for use by professionals.

This product contains animal derivatives and universal handling precautions are recommended. All animal products and derivatives have been collected from healthy animals. Bovine components originate from countries where BSE has not been reported.

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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