

MATERIAL SAFETY DATA SHEET CLOSTRIDIAL ANTISERA

1. PRODUCT AND COMPANY INFORMATION

Product name: CLOSTRIDIAL ANTISERA (for research use only)

Product code: CODES:

Clostridium perfringens Type A: PL.6500, PL.6506
Clostridium perfringens Type B: PL.6501
Clostridium perfringens Type C: PL.6502
Clostridium perfringens Type D: PL.6503
Clostridium perfringens Type E: PL.6504
Clostridium sordelli: PL.6507, PL.6508
Control Serum: PL.6505

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Antisera containing Formalin and Sodium Azide

Hazardous Components: **Sodium Azide** < 1% w/w EINECS: 247-852-1
CAS: 26628-22-8
[T+] R28; [-] R32; [N] R50/53

Formalin < 0.25% v/v EINECS: 200-001-8
CAS: 50-0-0
[T] Toxic, Cat 3 carcinogen (cause for concern but not enough information for satisfactory assessment), [N] R23/24/25 toxic by inhalation, in contact with skin and if swallowed. R40 probable carcinogen. R34 causes burns. R43 may cause sensitization by skin contact.

3. HAZARD IDENTIFICATION

Main hazards: These products are for *in vitro* diagnostic use only. Specimen material may contain pathogenic organisms

Sodium Azide: Harmful by inhalation, in contact with skin and if swallowed.

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4. FIRST-AID MEASURES

- Skin contact:** May cause mild irritation at the site of contact. Wash skin with soap and water. Obtain medical attention. May cause skin sensitization.
- Eye contact:** May cause irritation and redness. Flush with water.
- Ingestion:** Avoid hand to mouth contact. Seek medical advice.
- Inhalation:** May be irritation of the throat with a feeling of tightness in the chest. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Not combustible. Suitable extinguishing media for the surrounding fire should be used.
- Exposure hazards:** None in small quantities.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear protective clothing. Refer to Section 8 of MSDS for personal protection details.
- Environmental precautions:** Properly disinfect any spills. Do not discharge into drains or rivers. Contain large spillages using bunding.
- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

- Handling requirements:** For in vitro use only. Read the instructions for use. Avoid the formation of aerosols. Avoid direct contact with the substance. Do not handle in confined areas.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous ingredients:

Sodium Azide: WEL (8 hr TWA): 0.1 mg/m³ WEL (15 min STEL): 0.3 mg/m³

Respiratory protection: Respiratory protection not required.

Hand protection: Protective disposable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Formalin:

WEL (8 hr TWA): 2.55 mg/m³ WEL (15 min STEL): 2.5 mg/m³

Respiratory protection: Respiratory protection not required.

Hand protection: Nitrile gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid
Colour: Buff/brown
Odour: Not known
pH: Not known
Solubility: Soluble
Flammability: Not combustible

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions. Do not use after expiry date.

Materials to avoid: Strong oxidizing agents. Strong acids.

Hazardous Decomposition products: In combustion emits toxic fumes. Formalin: Some metallic oxides. Hydrogen Bromide. Nitrogen Oxides.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: **SODIUM AZIDE**
ORL MUS LD50 27 mg/kg
ORL RAT LD50 27 mg/kg
SKN RAT LD50 50 mg/kg

FORMALIN
Not considered to be toxic for humans.

Routes of exposure: Refer to Section 4 of MSDS for routes of exposure and corresponding systems.

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.

Persistence and degradability: No data available.

Bio-accumulative potential: No data available.

Other adverse effects: Sodium Azide No data available
Formalin No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Waste code number: 160506 Hazardous waste.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

Sodium Azide:

ADR/RID

UN no: - Not applicable

Shipping name: Not classified as dangerous in the meaning of transport regulations.

IMDG / IMO

Un no: - Marine pollutant: NO

IATA / ICAO

UN no: - Not applicable.

Formalin: Not regulated.

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15. REGULATORY INFORMATION

SODIUM AZIDE:



Hazard symbols:

Harmful

Risk Phrases: R22; Harmful if swallowed.
R32; Contact with acids liberates very toxic gas.

EC Classification: Xn - Harmful

Safety Phrases: S29/35: Do not empty into drains: dispose of this material and its container in a safe way.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S46: If swallowed, seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions that complete these regulations. Refer to all applicable national, international and local regulations.

16. OTHER INFORMATION

Risk phrases used in Section 3: R26/27/28 Very toxic by inhalation and in contact with skin. Very toxic if swallowed.
R32 Contact with acids liberates very toxic gas.
R33 Danger of cumulative effects.
R43 May cause sensitization by skin contact.

Warning: Because no test method can offer complete assurance that HIV, HCV, HbsAg or other infectious agents are absent, the components of this kit should be handled accordingly.

UK Legislation: Health and Safety at Work Act, 1974, and relevant statutory provisions.

Legal disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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