

**1. Identification of the substance/preparation and of the company/undertaking:**

**Identification of the substance or preparation:**

OxyDNA Test.

**Cat No.:** BIO81DNA

**Use of the substance/preparation:** Biotrin OxyDNA Test is an in-vitro fluorescent protein binding method for the detection of oxidative damage to DNA in fixed permeabilised cells.

**Company/Undertaking Identification:** Biotrin International,  
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**2. Composition/Information on Ingredients:**

Wash Concentrate: 25x TRIS buffered saline/Tween-20 (**contains 0.01% thiomersal**)

FITC Conjugate: 0.5ml Binding protein-FITC conjugate (**contains 0.01% Thiomersal**)

Blocking Solution: 5ml (10x) solution (contains 15mM sodium azide). **Contains 0.1% Sodium Azide**  (**Xn - Harmful**) risk phrases (R22, R32) "Harmful if swallowed and contact with acids liberates very toxic gas."

**3. Hazards Identification:**

**Sodium Azide** is an irritant. Avoid contact with components containing azide. Do not ingest or inhale. In the concentrations present in the blocking solution, sodium azide is classified as Harmful and subject to the following risk phrases (R22, R32) "**Harmful if swallowed and contact with acids liberates very toxic gas.**"

**Thiomersal** is toxic by inhalation, in contact with skin and if swallowed. It is irritating to eyes, respiratory system and skin. It is a possible mutagen, which may affect kidneys and nerves. However Thiomersal is not considered hazardous in the concentrations present in kit solutions.

**Trizma** base is irritating to eyes respiratory system and skin. However Trizma base is not considered hazardous in the concentrations present in kit solutions.

**4. First Aid Measures:**

**Applicable for all kit components**

**Inhalation:** If exposure is severe remove to fresh air.

**Skin:** Wash skin with copious amounts of water. Remove contaminated clothing and shoes.

**Eye:** Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids. If any irritation persists, obtain medical assistance.

**Ingestion:** Wash out mouth with copious amounts of water. Give plenty of water to drink. Obtain medical assistance if large quantity is ingested.

**5. Fire-fighting measures:**

**Precautions during fire:** Avoid inhalation of fumes

**Suitable extinguishing media:** Use media suitable to extinguish supporting or surrounding fire. Do not use water on sodium azide containing components.

**Special exposure hazards:** Some components may decompose and emit toxic fumes under fire conditions (Sodium Azide, Trizma base).

**Special fire-fighting procedures:** Self-contained breathing apparatus may be required if heavy fumes are emitted. It is advisable for protective clothing to be worn to prevent contact with skin and eyes.

**6. Dispositions after accidental spilling:**

N/A

**7. Accidental release measures:**

**Personal Precautions :** Wear Protective clothing for the prevention of skin and eye contact.

**Environmental precautions:** Dispose of any contaminated material in biohazardous disposal units and in accordance with established safety procedures.

**Methods for cleaning up:** Wipe up spills with absorbent paper, then clean area with a concentrated chlorine solution. Discard all materials used to wipe up spills using biohazard waste facilities. Residues of extract solution are generally considered as potentially hazardous waste. All such materials should be disposed of in accordance with established safety procedures.

**8. Handling and storage:**

**Handling:** All clinical specimens and any infected or potentially infected material should be handled as though potentially infectious.

**Storage:** Store at 2 - 8°C

**Specific Use:** This product is for laboratory use only.

**9. Exposure controls/personal protection:**

All patient specimens are considered potentially biohazardous materials. They should be handled at the Biosafety Level 2 as recommended for any potentially infectious specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1998.

Some of the reagents in this kit contain toxic or irritant components (Refer to section 3). Wear protective clothing, disposable latex gloves and eye protection while handling specimens and performing the assay. Wash hands thoroughly when finished.

**10. Physical and chemical properties:**

Not Applicable

**11. Stability and reactivity:**

OxyDNA Test kit is stable at 2 - 8°C.

The Blocking Solution contains Sodium azide at a concentration of 0.1 %, which may form potentially explosive metal azides with lead and copper plumbing. Sodium azide explodes when heated and may form hazardous combustion or decomposition products.

**12. Toxicological information:**

Blocking Solution contains Thiomersal and Sodium azide which are toxic by inhalation, in contact with skin and if swallowed.

**13. Ecological information:**

No known ecological hazards

**14. Disposal considerations:**

Residues of test materials are generally considered as hazardous waste. All such materials should be disposed of in accordance with established safety procedures.

**15. Transport information:**

No specific recommendations

**16. Regulatory information:**

Directive 2001/58/EC


**17. Other information:**


**Training :** This product should be handled only by technically qualified individuals. The contents of this MSDS should be known before use.

**Restrictions on Use:** This product is for laboratory use only.

Signed:   
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Date: 14/01/05

Approved:   
\_\_\_\_\_  
Quality Systems Manager

Approved:   
\_\_\_\_\_  
Health and Safety Officer

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