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**MANUFACTURER IDENTIFICATION**

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Manufacturer's Name: OXIS International, Inc.  
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Portland, OR 97217-3935

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Date of Last Revision: 12 May 1998

Trade Name: **BIOXYTECH® GPx-340™ Assay Kit**

Catalog Number: 21017

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**HAZARDOUS COMPONENT(S) IDENTIFICATION**

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Hazards identified with this product are associated with the following Assay Kit component(s):

Component Name: *tert*-Butyl Hydroperoxide Solution, 70%  
Chemical Name: *tert*-Butyl Hydroperoxide  
Common Name(s), Synonyms: *tert*-Butyl Hydroperoxide Solution, 70% in water  
Molecular Formula: C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>  
CAS No.: 75-91-2  
EC No.: 200-915-7

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**PHYSICAL AND CHEMICAL CHARACTERISTICS**

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Water solubility: Yes  
Appearance: Colorless liquid  
Odor: N/A  
Storage conditions: Store tightly capped in refrigerator (2-8°C) in the dark.  
Vapor pressure: 62 mm @ 45°C; 174 mm @ 60°C  
Specific gravity: 0.937  
Vapor density: 2.07

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**PHYSICAL HAZARDS**

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Reactivity: Stable under storage conditions. Will react violently with acids.  
Reactivity in water: No  
Incompatible with: Strong reducing agents, organics, finely powdered metals, strong acids and bases.  
Conditions to avoid: Heat, may be shock-sensitive. Contact with combustible material may cause fire.  
Hazardous decomposition products: Carbon monoxide, carbon dioxide.  
Hazardous polymerization: N/A  
Other warnings: Strong oxidizer, corrosive, combustible liquid.

## MATERIAL SAFETY DATA SHEET

### HEALTH HAZARDS

|                         |  |
|-------------------------|--|
| Primary route of entry: | Readily absorbed through skin or inhaled.  |
| Toxicity data:          | Oral-Mouse LD <sub>50</sub> : 320 mg/Kg<br>Inhalation-Mouse: LC <sub>50</sub> : 350 ppm/4h   |
| Health hazards:         |  |
| Acute effects:          | Harmful by inhalation, ingestion, or skin absorption. Destructive to skin, eyes, mucous membranes and respiratory tract. Causes burns. Irritant. |
| Chronic effects:        | Mutagenic. Possible risk of irreversible effects.  |

### FIRST AID MEASURES

If swallowed and person is conscious, wash out mouth with water. Seek immediate medical advice. In case of contact with eyes or skin, flush with plenty of water for at least 15 minutes and seek medical advice. Dispose of contaminated clothing and shoes. If inhaled, move to fresh air and seek medical advice.

### FIRE AND SPILL MEASURES

|                                     |  |
|-------------------------------------|--|
| Extinguisher media:                 | Carbon dioxide, dry chemical or foam.  |
| Unusual fire/explosion hazards:     | Vigorously supports combustion. May ignite other material on contact. Container explosion possible under fire or heat conditions. May be shock-sensitive.  |
| If material is released or spilled: | Evacuate area. Shut off sources of ignition.   |
| Clean up of spill site:             | Wear protective clothing (chemical resistant gown, gloves, rubber boots, and eye protection), wear self-contained breathing apparatus. Absorb on sand or vermiculite and place in containers out of doors. Ventilate the spill site and wash with water. |
| Waste disposal methods:             | Dispose of waste in accordance with all Federal, State and local regulations. Destruction of product by a qualified facility recommended.  |

### PRECAUTIONS FOR SAFE HANDLING AND USE

|                                |  |
|--------------------------------|--|
| Respiratory protection:        | Wear appropriate NIOSH/MSHA-approved respirator.                           |
| Ventilation:                   | Chemical fume hood.  |
| Personal protective equipment: | Chemical resistant laboratory coats, gloves and face shield recommended.   |
| Work practices:                | Safety shower and eye bath required. Avoid prolonged or repeated exposure. |

N/A = No applicable information found. The information contained in this MSDS is believed to be correct to the best of our knowledge. However, we make no warranty, expressed or implied, with respect to such information. The information may not be all inclusive. The user should make an independent determination of the suitability of the information based on all sources available and adopt appropriate safety precautions. OXIS International, Inc. shall not be held liable for any damage resulting from contact or handling of this product.