

## Lithium Battery

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Lithium Battery  
Ref No. 900905

Test kit contains a lithium battery.

Company Identification: Stanbio Laboratory  
1261 North Main Street  
Boerne, TX 78006

Telephone Number: (830) 249-0772  
Website: <http://www.stanbio.com>

### SECTION 2 – HAZARDS IDENTIFICATION

**Routes of Exposure:** Only when used as directed.

**Classification system:** In compliance with OSHA's Hazard Communication Standard (29CFR 1910.1200), the Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees. Because the batteries are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard, hence a SDS is not required.

**National Fire Protection Association (NFPA) ratings (scale 0-4):**

Health=0  
Fire=0  
Reactivity=0

#### **Hazard Overview**

**Health:** Minimal risk if used as directed.

**Fire:** Not considered a fire hazard.

**Reactivity:** Lithium battery does not contain hazardous materials according to the standard. Minimal risk.

**Special Hazards:** Avoid ingestion of reagents, as toxicity has not been determined. Although no SDS is required by the standard, the following general guidelines are given should reagents be inhaled, ingested, or exposed to eyes or skin.

#### **Carcinogenicity information**

**OSHA (Occupational Safety and Health Administration):** None of the ingredients is listed.

**NTP (National Toxicology Program):** None of the ingredients is listed.

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

### SECTION 3 – PRODUCT COMPOSITION

The test kit is composed of a lithium battery.

Lithium battery (The battery contains the following)

**Lithium Battery**

<u>Chemical Name</u>	
Positive Electrode	Manganese Dioxide
Negative Electrode	Lithium
Electrolyte	Propylene Carbonate Solvent 1,2-Dimethoxyethane Solvent Lithium Perchlorate Salt

**SECTION 4 – FIRST AID MEASURES**

**After inhalation:** Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

**After skin contact:** Flush skin with water for 15 minutes. Wash affected area thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**After eye contact:** Flush eyes including under the eyelids with water for 15 minutes. Get medical attention.

**After swallowing:** Wash out mouth with generous amounts of water. Do not give anything by mouth to an unconscious person. Get medical attention.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Suitable extinguishing agents:** Not considered a fire hazard.

**Protective equipment:** Wear a self-contained breathing apparatus and protective clothing.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Measures for environmental protection:** Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.

**Measures for cleaning/ collecting:** Wash spill area with appropriate cleaning materials. Dispose of in a manner consistent with federal, state and local regulation.

**SECTION 7 – HANDLING AND STORAGE**

**Information for safe handling:** Refer to the package insert or product label for additional information on storage conditions.

**Information about protection against explosions and fires:** No special measures required.

**Requirements to be met by storerooms and receptacles:** Refer to the package insert or product label for additional information on storage conditions.

**Information about storage in one common storage facility:** Store product in original packaging.

**Further information about storage conditions:** Protect from heat and direct sunlight.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**General protective and hygienic measures:** Always maintain good housekeeping. Do not eat, drink or store food and beverages in areas where chemicals are used. Wash hands before breaks and at the end of the work shift.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Not applicable

**SECTION 10 – STABILITY AND REACTIVITY**

**Dangerous reactions:** No dangerous reactions known.

Stability: Stable.

Incompatibility: None.

Hazardous Polymerization: Will not occur.

**Dangerous reactions:** No dangerous decomposition products known.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Primary toxicological effects of the final product**

**Skin irritation:** Not determined.

**Eye irritation:** Not determined.

**Sensitization:** No sensitizing effects known.

**Target organs/systems:** Not determined.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Toxicity:** Further details: no data available

**Persistence and degradability:** Further details: no data available

**Bioaccumulative potential:** Partition coefficient: n-octanol/water: no data available

**Mobility in soil:** no data available

**Results of PBT and vPvB assessment:** no data available

**General information:** Do not allow to enter into ground-water, surface water or drains.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

DISPOSAL – Lithium batteries are neither specifically listed nor exempted from the EPA hazardous waste regulations as promulgated by the Resource Conservation and Recovery Act (RCRA). The only metal of possible concern in a lithium battery is lithium that is not listed or characteristic toxic hazardous waste. Waste lithium batteries can be considered a reactive hazardous waste if there is a significant amount of unreacted, or unconsumed lithium remaining in the spent battery. The key to disposing of a lithium battery as a non-hazardous waste is to guarantee that it is fully or mostly discharged. Once it is discharged it can be disposed of as non-hazardous waste. Dispose of in a manner consistent with federal, state, and local regulations.

**SECTION 14 – TRANSPORT INFORMATION**

**DOT Class** - Not restricted for transportation.

**IMDG Class - Marine pollutant:** No, not restricted for transportation.

**ICAO/IATA Class** - Not restricted for transportation.

**SECTION 15 – REGULATORY INFORMATION**

**SARA (Superfund Amendments and Reauthorization Act of 1986 – USA):**

**Section 302/304 (40CFR355.40):** The product does not contain listed substances.

**Section 313 (40CFR372.65):** The product does not contain listed substances.

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**California Proposition 65 (USA)**

**Chemicals known to cause cancer:** The product does not contain listed substances.

**Chemicals known to cause female reproductive toxicity:** None of the ingredients is listed.

**Chemicals known to cause male reproductive toxicity:** None of the ingredients is listed.

**Chemicals known to cause developmental reproductive toxicity:** None of the ingredients is listed.

**Markings according to European guidelines:** observe the general safety regulations when handling chemicals. The product does not require any hazard warnings according the respective European Community (EC) Directives.

**SECTION 16 – OTHER INFORMATION**

The information contained in this SDS is believed to be accurate and represents the best information currently available. Stanbio Laboratory makes no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should determine suitability of the information contained in SDS for their particular purpose.

In no way shall Stanbio Laboratory be liable for any claims, losses or damages resulting from using information contained in SDS.