

**C/D/N ISOTOPES INC.**

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**MATERIAL SAFETY DATA SHEET**

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**Sheet No. 7062**

**SECTION 1: PRODUCT IDENTIFICATION**

**Catalog No.:** D-5552  
**Product Name:** 2-Hydroxy-17 $\beta$ -estradiol-1,4,16,16,17-d<sub>5</sub>  
**CAS No.:** 221093-33-0

**SECTION 2: CHEMICAL INFORMATION (UNLABELLED)**

**Chemical Name:** 2-HYDROXYESTRADIOL  
**CAS No.:** 362-05-0  
**Synonyms:** 1,3,5(10)-Estratrien-2,3,17 $\beta$ -triol

**SECTION 3: HAZARDS IDENTIFICATION**

**Known Hazards:** POSSIBLE TERATOGEN, POSSIBLE CARCINOGEN

**SECTION 4: FIRST AID MEASURES**

**Skin Contact:** Wash with water.  
**Ingestion:** Medical assistance for gastric lavage.  
**Inhalation:** Remove to fresh air, artificial respiration or oxygen if necessary.

**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Carbon dioxide, dry chemical powder, foam.  
**Special Fire Fighting Equipment:** Wear a self-contained breathing apparatus and protective clothing.  
**Unusual Fire and Explosion Hazards:** None verified.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.  
**Spill Clean-up Methods:** Provide adequate ventilation. Carefully scoop up and transfer to a closed container.

**SECTION 7: HANDLING AND STORAGE**

**Usage/Handling Precautions:** Fumehood  
**Storage Conditions:** KEEP REFRIGERATED. Adequate ventilation. Protect from heat. Protect from light.

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**Respiratory Protection:** Self-contained breathing apparatus or chemical cartridge.  
**Hand Protection:** Chemical-resistant gloves, solvent-resistant gloves.  
**Eye Protection:** Wear safety goggles.  
**Other Protective Equipment:** Protective clothing.  
**Other Protective Measures:** Provide safety showers and eyewash station near workplace.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** White solid**Melting Point (°C):** 186-188 (190-191)**Volatiles (%):** < 1**Water Solubility (%):** < 1**Flash Point (°C):** Not available**Autoignition Temperature (°C):** Not available.**SECTION 10: STABILITY AND REACTIVITY****Stability:** Stable.**Incompatibility (Materials to Avoid):** Oxidizing/reducing agents.**Hazardous Decomposition Products:** CO/CO<sub>2</sub> on combustion.**SECTION 11: TOXICOLOGICAL INFORMATION****Acute and Chronic Health Hazards****TLV:** None verified.**Effects of Overexposure:** Possible carcinogen. Possible teratogen.**SECTION 12: ECOLOGICAL INFORMATION**

Data not yet available.

**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal Procedures:** Via licensed disposal company. Dispose of according to federal and local regulations.**SECTION 14: TRANSPORT INFORMATION**

Non-hazardous for transport.

**SECTION 15: REGULATORY INFORMATION****TLV:** None verified.**SECTION 16: OTHER INFORMATION**

This product is not radioactive. The data given for this product are those of the corresponding unlabelled product indicated in Section 2, unless specifically indicated otherwise. Safety data for the labelled compounds are generally unavailable but the hazards and properties are assumed to be similar or identical to those of the unlabelled compounds. While the information set forth is believed to be accurate, C/D/N ISOTOPES INC. extends no warranties with respect hereto and disclaims all liabilities from reliance thereon. All judgements as to the suitability of the data presented with respect to the use of this product are the responsibility of the purchaser and intended user.

**Date:** January 1, 2014**C/D/N ISOTOPES INC.**  
Vincent Guay, Ph.D.