

## **Estradiol**

### **1. Process**

Differing concentrations of estradiol (E2) and sesame oil will be prepared inside of a chemical fume hood. The solutions will be injected into silastic capsules, which will be plugged at both ends by silicone glue.

### **2. Hazard class**

Carcinogen, reproductive hazard

### **3. Personal Protective Equipment**

#### **Respiratory protection**

Handling of estradiol in the crystalline/powder form and in solution with sesame oil will occur in a functional chemical fume hood. Respiratory protection is not required

#### **Hand protection**

Handle with gloves.

#### **Eye protection**

Safety glasses

#### **Body protection**

Lab coat.

#### **Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands after removing gloves and after handling product.

### **4. Engineering Controls**

Chemical fume hood required when handling estradiol and estradiol solutions.

### **5. Special Handling Procedures and Storage Requirements**

#### **Handling**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### **Storage**

Keep container tightly closed in a dry and well-ventilated place

### **6. Spill and Accident Procedures**

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

**7. Environmental precautions**

Do not let product enter drains.

**8. Waste Disposal Procedures**

Estradiol will be collected and managed as a Non-RCRA waste. All liquid and solid waste including contaminated gloves will be contained and disposed of through Northern Arizona University's Office of Regulatory Compliance.