

**1. IDENTIFICATION OF SUBSTANCE:**

Trade name: Everolimus  
Product Number: [E-4040](#)  
Manufacturer/Supplier:  
LC Laboratories  
165 New Boston Street  
Woburn, MA 01801 USA  
+1-781-937-0777 Fax: +1-781-938-5420

**2. COMPOSITION/DATA ON COMPONENTS:**

Chemical Name: 40-*O*-(2-Hydroxyethylrapamycin)  
Synonyms: Afinitor, Certican, SDZ-RAD, RAD001, Zortress  
Hazardous Ingredient: 40-*O*-(2-hydroxyethylrapamycin)  
CAS Registry Number: 159351-69-6  
Molecular Weight: 958.22  
Molecular Formula: C<sub>53</sub>H<sub>83</sub>NO<sub>14</sub>

**3. HAZARDS IDENTIFICATION:**

Hazard Description: potent immunosuppressant; may cause irritation to eyes, skin, mucous membranes

**4. FIRST AID MEASURES:**

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration  
After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician  
After eye contact: check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician  
After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

**5. FIRE FIGHTING MEASURES:**

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam  
Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Unusual fire hazard: none known

**6. ACCIDENTAL RELEASE MEASURES:**

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves  
Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

**7. HANDLING AND STORAGE:**

Information for safe handling: avoid inhalation and contact with skin, eyes and clothing; material may be an irritant  
Storage: store solid and solutions at -20 °C

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: chemical-resistant rubber gloves

Eye protection: chemical safety goggles

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: solid powder

Color: white to off-white

Odor: none

Melting point/Melting range:

Danger of explosion: none

Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in plain water is estimated to be about 1-10  $\mu\text{M}$ ; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content: none

Organic solvents: soluble in DMSO at 100 mg/mL; soluble in ethanol at 100 mg/mL

**10. STABILITY AND REACTIVITY:**

Stability: stable if stored as directed; avoid strong oxidizing agents

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides

**11. TOXICOLOGICAL INFORMATION:**

RTECS #:

Acute toxicity: none known

Primary irritant effect:

On the skin: none known

On the eye: not known; may be an irritant

**12. ECOLOGICAL INFORMATION:**

General notes: no data available

**13. DISPOSAL CONSIDERATION:**

Dispose of in accordance with prevailing country, federal, state and local regulations

**14. TRANSPORT INFORMATION:**

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

**15. REGULATIONS:**

Code letter and hazard designation of product:

Hazard-determining components of labeling:

Risk phrases: may be irritating to eyes, skin and respiratory system

Safety phrases: in case of accident, flush eyes or skin with copious amounts of water; remove contaminated clothing and shoes; call a physician

**16. OTHER INFORMATION:**

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability for any damage resulting from use of this material.