



## MATERIAL SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

**KING PHARMACEUTICALS, INC.**  
**501 Fifth Street**  
**Bristol, TN 37620**

**EMERGENCY TELEPHONE**  
**NUMBER: 1-800-776-3637**  
**TECHNICAL ASSISTANCE:**  
**1-800-776-3637**

**SUBSTANCE: Thrombi-Pad™ (3X3 hemostatic pad)**

**TRADE NAMES/SYNONYMS:**

Product Number 60793-916-03 (reference number 0916); 00232497

**PRODUCT DESCRIPTION:** The pad consists of thrombin, sodium carboxymethylcellulose, and calcium chloride lyophilized within a nonwoven gauze. Read package insert prior to use.

**CREATION DATE:** Mar 12 2007

**REVISION DATE:** Mar 28 2007

---

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

---

**COMPONENT: SODIUM CARBOXYMETHYL CELLULOSE**

**CAS NUMBER:** 9004-32-4

**PERCENTAGE:** <59

**COMPONENT: CALCIUM CHLORIDE, DIHYDRATE**

**CAS NUMBER:** 10035-04-8

**PERCENTAGE:** <41

**COMPONENT: TOPICAL BOVINE THROMBIN, USP**

**CAS NUMBER:** 9002-04-4

**PERCENTAGE:** <1

---

### 3. HAZARDS IDENTIFICATION

---

**NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=1 REACTIVITY=0**

**EMERGENCY OVERVIEW:**

**COLOR:** off-white



**PHYSICAL FORM:** pad

**MAJOR HEALTH HAZARDS:** respiratory tract irritation, skin irritation, eye irritation, allergic reactions, antibody formation against bovine thrombin may cause adverse hemostatic effects

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** irritation, cough, antibody response, allergic reactions, nausea, vomiting, difficulty breathing, headache, blood disorders

**LONG TERM EXPOSURE:** irritation, cough, allergic reactions, antibody response, nosebleed, stomach pain, chest pain, difficulty breathing, wheezing, asthma, headache, lung damage

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** irritation, allergic reactions, antibody response, absorption may occur, itching, nausea, vomiting, headache, blood disorders

**LONG TERM EXPOSURE:** irritation, itching, antibody response, allergic reactions, blood disorders

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** irritation, itching, tearing

**LONG TERM EXPOSURE:** irritation

**INGESTION:**

**SHORT TERM EXPOSURE:** gastrointestinal irritation, nausea, vomiting, stomach pain, irregular heartbeat, drowsiness, convulsions

**LONG TERM EXPOSURE:** no information on significant adverse effects

---

## 4. FIRST AID MEASURES

---

**INHALATION:** Not a likely route of exposure. It is unlikely that emergency treatment will be required if used as directed.

**SKIN CONTACT:** This product is intended for topical use. It is unlikely that emergency treatment will be required if used as directed.

**EYE CONTACT:** It is unlikely that emergency treatment will be required if used as directed. If contact does occur, flush eyes with plenty of water for at least 15 minutes and then get medical attention.

**INGESTION:** Not a likely route of exposure. If swallowed, get medical attention.

---

## 5. FIRE FIGHTING MEASURES

---

**FIRE AND EXPLOSION HAZARDS:** Slight fire hazard.

**EXTINGUISHING MEDIA:** carbon dioxide, regular dry chemical, regular foam, water

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**HAZARDOUS COMBUSTION PRODUCTS:**

Thermal decomposition products or combustion: oxides of carbon, oxides of sodium, oxides of calcium, hydrogen chloride

---

## 6. ACCIDENTAL RELEASE MEASURES

---

### **OCCUPATIONAL RELEASE:**

Move undamaged containers from spill area. Small dry spills: Sweep and scoop spilled material into clean, dedicated equipment. Keep out of water supplies and sewers.

---

## 7. HANDLING AND STORAGE

---

**STORAGE:** Store and handle in accordance with all current regulations and standards. Store between 2 C and 25 C. See original container for storage recommendations. Keep separated from incompatible substances.

---

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

---

### **EXPOSURE LIMITS:**

#### **Thrombi-Pad™ (3X3 hemostatic pad):**

No occupational exposure limits established.

**VENTILATION:** Under normal conditions of use, no special ventilation equipment is needed.

**EYE PROTECTION:** Eye protection not required under normal conditions.

**CLOTHING:** Wear appropriate clothing to minimize skin contact.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** No respirator is required under normal conditions of use.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**PHYSICAL STATE:** solid

**APPEARANCE:** foil wrapped

**COLOR:** off-white

**PHYSICAL FORM:** pad

**ODOR:** Not available

**BOILING POINT:** Not applicable

**MELTING POINT:** Not available

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY:** Not applicable

**SPECIFIC GRAVITY:** Not available

**WATER SOLUBILITY:** Not available

**PH:** Not applicable

**VOLATILITY:** Not applicable

**ODOR THRESHOLD:** Not available

**EVAPORATION RATE:** Not applicable

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

---

## 10. STABILITY AND REACTIVITY

---

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**INCOMPATIBILITIES:** oxidizing materials

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: oxides of carbon, oxides of sodium, oxides of calcium, hydrogen chloride

**POLYMERIZATION:** Will not polymerize.

---

## 11. TOXICOLOGICAL INFORMATION

---

**Thrombi-Pad™ (3X3 hemostatic pad):**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** blood system disorders, known sensitivity to bovine-derived products, allergic reactions

**ADDITIONAL DATA:** Individuals who are known to be sensitive to bovine-derived substances should not be exposed to this material. Refer to the current package insert for additional information.

**SODIUM CARBOXYMETHYL CELLULOSE:**

**TOXICITY DATA:** >5800 mg/m<sup>3</sup>/4 hour(s) inhalation-rat LC50; >2 gm/kg skin-rabbit LD50; 27000 mg/kg oral-rat LD50

**ACUTE TOXICITY LEVEL:**

Relatively Non-toxic: ingestion

**TUMORIGENIC DATA:** Available.

**REPRODUCTIVE EFFECTS DATA:** Available.

**CALCIUM CHLORIDE, DIHYDRATE:**

**TOXICITY DATA:** >5000 mg/kg skin-rabbit LD50

**LOCAL EFFECTS:**

Irritant: inhalation, skin, eye

**MUTAGENIC DATA:** Available.

**BOVINE THROMBIN:**

**TOXICITY DATA:** >3 gm/kg skin-mouse LD50

**LOCAL EFFECTS:**

Irritant: inhalation, skin, eye

**TARGET ORGANS:** blood

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** blood system disorders, known sensitivity to bovine-derived products

**MUTAGENIC DATA:** Available.

**ADDITIONAL DATA:** For topical use only. Not for intravenous administration. This substance may be fatal if it enters the bloodstream. Individuals who are known to be sensitive to bovine-derived substances should not be exposed to this material.

---

## 12. ECOLOGICAL INFORMATION

---

Not available

---

## 13. DISPOSAL CONSIDERATIONS

---

Dispose in accordance with all applicable regulations. Dispose in a puncture-resistant biohazard container.

---

## 14. TRANSPORT INFORMATION

---

**U.S. DEPARTMENT OF TRANSPORTATION:** No classification assigned.

---

## 15. REGULATORY INFORMATION

---

### **U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):**  
Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):**  
Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):**

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29CFR1910.119):** Not regulated.

### **STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

### **NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** This product is exempt.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

---

## 16. OTHER INFORMATION

---

©Copyright 1984-2007 MDL Information Systems, Inc. All rights reserved.

**While we believe the information provided herein is accurate and current, King Pharmaceuticals, Inc. makes no representations or warranties, either expressed or implied, and assumes no responsibility for any damage or injuries of any kind, which may result from use or reliance upon this information.**