### **MATERIAL SAFETY DATA SHEET**

Heparin

### SECTION I - NAME AND PRODUCT

Manufactured for: Chemical Name: Heparin Separation Technology, Inc. Therapeutic Category: An EKF Diagnostics Company

570 Monroe Road, Suite 1008

Sanford, FL 32771 (407) 788-8791 (407) 788-3677 (Fax) Anticoagulant

Catalog Number: 270-100, 270-106, 270-107,

270-108, 270-109

### SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazard Communication Rule,

29 CFR 1910.1200: None found.

### SECTION III - PHYSICAL AND CHEMICAL COMPOSITION

**Chemical Name:** Heparin Ammonium, Calcium, Lithium,

Sodium, Zinc and Low Molecular weight

(Heparinate).

Chemical Family: Glycosaminoglycans/Sulfomucopolysaccharides.

CAS RN: 9041-08-1 (Na); 60800-63-7 (NH4); 9045-22-1 (Li); 37270-89-8 (Calcium).

Appearance and Odor: White powder, practically odorless

Solubility In Water: 25 g/100mL minimum

Percent Volatile by Volume (%): None

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Water spray, dry chemical, carbon dioxide or foam as Extinguisher Media:

appropriate for surrounding fire and materials. As with all fires, evacuate personnel to safe areas. Selfcontained breathing equipment and protective clothing

recommended for firefighters.

# SECTION V - HEALTH HAZARD DATA

Threshold Limit Value: None established.

Effects of Overexposure:

TDLo...7 mg/kg/4D subcutaneous-man; LD<sub>50</sub>...354 mg/kg oral-rat

TDLo...1400 units/kg/1W-1 subcutaneous-woman; LD<sub>50</sub>...2800 mg/kg intravenous-mouse TDLo...700 units/kg/13D-1 intravenous-woman; LD<sub>50</sub>...1000 mg/kg intravenous dog;

Emergency and First Aid Procedures: Can cause irritation. Upon eye or skin contact, remove

to fresh air and flush with copious amounts of water. Obtain medical attention. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen.



Precautions to consider: Those developing hypersensitivity (anaphylactic)

reactions must receive immediate medical attention. Avoid contact with eyes, skin or clothing. Avoid

breathing dust.

Carcinogen or potential carcinogen: Not listed (National Toxicology Program/IARC and

OSHA).

### SECTION VI - REACTIVITY DATA

Stability: Stable.

Hazardous Depolymerization: Will not occur.

Hazardous Decomposition Products: Emits toxic fumes when heated to decomposition.

Incompatibility: None.

### SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material

is released or spilled: Sweep up material for recovery. Handle

with care to ensure product integrity.

Waste Disposal Method: Sweep up for recovery.

### SECTION VIII - CONTROL MEASURES

Respiratory Protection: NIOSH approved dust respirator. Ventilation: Local ventilation recommended.

Protective Gloves: Required to avoid product contamination.

Other Protective Equipment: Safety goggles and lab apparel.

#### SECTION IX - SPECIAL PRECAUTIONS

Precautions in Handling and

Storage: Store in tightly sealed containers.

Protect from heat, low pH and moisture.

Other Precautions: Follow GMP and GLP when handling

material.

The above information has been obtained from sources considered reliable but has not been independently verified and, therefore, we cannot guarantee the accuracy of the information. No representation or warrant, express or implied, is made with respect to the information contained herein.

