

#### SAFETY DATA SHEET

**Product Name: Aminocaproic Acid Injection** 

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name And Hospira, Inc.

**Address** 275 North Field Drive

Lake Forest, Illinois 60045

**USA** 

**Emergency Telephone** CHEMTREC: North America: 800-424-9300;

International 1-703-527-3887; Australia - 61-290372994; UK - 44-870-8200418

Hospira, Inc., Non-Emergency 224 212-2000

Product Name Aminocaproic Acid Injection

Synonyms 6-aminohexanoic acid

#### 2. HAZARD(S) IDENTIFICATION

Emergency Overview Aminocaproic Acid Injection is a solution containing aminocaproic acid, an inhibitor

of fibrinolysis. In clinical use, this product is used to enhance clotting when fibrinolysis contributes to bleeding. In the workplace, this material should be considered potentially irritating to the skin, eyes and respiratory tract. Based on clinical use, potential target organs include the blood and cardiovascular system.

**U.S. OSHA GHS Classification** 

Physical Hazards Hazard Class Hazard Category

Not Classified Not Classified

Health Hazards Hazard Class Hazard Category

Skin Irritation 2
Eye Damage / Irritation 2A
STOT - RE 2

Label Element(s)

Pictogram

Signal Word Warning

**Hazard Statement(s)** Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statement(s)** 

**Prevention** Do not breathe vapor or spray.

Wear protective gloves

Wear eye protection/face protection. Wash hands thoroughly after handling.

**Response** Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical

attention

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it

before reuse. If skin irritation occurs: Get medical advice/attention.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient Name 6-Aminocaproic Acid

**Chemical Formula**  $C_6H_{13}NO_2$ 

Component	Approximate Percent by Weight	CAS Number	RTECS Number
Aminocaproic Acid	25	60-23-2	MO6300000

Non-hazardous ingredients include Water for Injection. Hydrochloric acid is used to adjust the pH.

#### 4. FIRST AID MEASURES

**Eye Contact** Remove from source of exposure. Flush with copious amounts of water. If irritation

persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Skin Contact** Remove from source of exposure. Flush with copious amounts of water. If irritation

persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

**Inhalation** Remove from source of exposure. If signs of toxicity occur, seek medical attention.

Provide symptomatic/supportive care as necessary.

**Ingestion** Remove from source of exposure. If signs of toxicity occur, seek medical attention.

Provide symptomatic/supportive care as necessary.

### 5. FIRE FIGHTING MEASURES

**Flammability** None anticipated for this aqueous product.

**Fire & Explosion Hazard** None anticipated for this aqueous product.

**Extinguishing Media** As with any fire, use extinguishing media appropriate for primary cause of fire such as

carbon dioxide, dry chemical extinguishing powder or foam.

**Special Fire Fighting** 

**Procedures** 

No special provisions required beyond normal firefighting equipment such as flame

and chemical resistant clothing and self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal Isolate area around spill. Put on suitable protective clothing and equipment as

specified by site spill control procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the

applicable federal, state, or local regulations.

### 7. HANDLING AND STORAGE

**Handling** No special handling required under conditions of normal product use.

Storage No special storage required for hazard control. For product protection, follow storage

recommendations noted on the product case label, the primary container label, or the

product insert.

**Special Precautions** No special precautions required for hazard control.



### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

		Exposure Limits			
Component	OSHA-PEL	ACGIH-TLV	AIHA WEEL	Hospira EEL	
Aminocaproic Acid	8-hr TWA: Not	8-hr TWA: Not	8-hr TWA: Not	8 hr TWA: Not	
	Established	Established	Established	Established	

Notes: OSHA PEL: US Occupational Safety and Health Administration - Permissible Exposure Limit

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

AIHA WEEL: Workplace Environmental Exposure Level

EEL: Employee Exposure Limit.
TWA: 8-hour Time Weighted Average.
STEL: 15-minute Short Term Exposure Limit.

**Respiratory Protection** Respiratory protection is normally not needed during intended product use. However,

if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) is recommended under

conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and

approved for respirator use as required.

**Skin Protection** If skin contact with the product formulation is likely, the use of latex or nitrile gloves

is recommended.

**Eye Protection** Eye protection is normally not required during intended product use. However, if eye

contact is likely to occur, the use of chemical safety goggles (as a minimum) is

recommended.

**Engineering Controls** Engineering controls are normally not needed during the normal use of this product.

# 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical State A sterile pyrogen-free aqueous solution Odor NA **Odor Threshold** NA 6.8 рH Melting point/Freezing point NA **Initial Boiling Point/Boiling Point Range** NA **Flash Point** NA **Evaporation Rate** NA Flammability (solid, gas) NA **Upper/Lower Flammability or Explosive Limits** NA Vapor Pressure NA Vapor Density (Air =1) NA

**Solubility** Aminocaproic acid is soluble in water, acid and alkaline solutions;

it is sparingly soluble in methanol and practically insoluble in

chloroform.

Partition coefficient: n-octanol/water: NA
Auto-ignition temperature NA
Decomposition temperature NA
Viscosity NA

**Relative Density** 

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### 10. STABILITY AND REACTIVITY

Reactivity Not determined.

**Chemical Stability** Stable under standard use and storage conditions.

**Hazardous Reactions** Not determined

Conditions to Avoid Not determined

Not determined **Incompatibilities** 

**Hazardous Decomposition** 

**Products** 

Not determined. During thermal decomposition, it may be possible to generate irritating vapors and/or toxic fumes of carbon oxides (COx) and nitrogen oxides

**Hazardous Polymerization** Not anticipated to occur with this product.

#### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity -** Not determined for the product formulation. Information for the active ingredient is as follows:

Ingredient(s)	Percent	Test Type	Route of Administration	Value	Units	Species
Aminocaproic Acid	100	LD50	Oral	14,300	mg/kg	Mouse
				12,000	mg/kg	Mouse
				>10,000	mg/kg	Rat
				16,400	mg/kg	Rat
				>7000	mg/kg	Dog
				>7000	mg/kg	Monkey
Aminocaproic Acid	100	LD50	Intravenous	4900	mg/kg	Mouse
				3000	mg/kg	Mouse
				2000	mg/kg	Rabbit
				3300	mg/kg	Rat
				3200	mg/kg	Rat

LD 50: Dosage that produces 50% mortality.

**Occupational Exposure** 

**Potential** 

Information on the absorption of this product via inhalation or skin contact is not

available. Avoid liquid aerosol generation and skin contact.

None anticipated from normal handling of this product. In clinical use, adverse effects Signs and Symptoms

may include nausea, diarrhea, gastrointestinal upset, decreased blood pressure, dizziness, ringing in the ear, nasal congestion, nasal discharge, headaches, muscle

weakness, rash, and alterations in blood chemistry.

None anticipated from normal handling of this product. **Aspiration Hazard** 

None anticipated from normal handling of this product. **Dermal Irritation/ Corrosion** 

None anticipated from normal handling of this product. However, inadvertent contact **Ocular Irritation/ Corrosion** 

of this product with eyes may produce irritation. Aminocaproic acid was a mild to

moderate eve irritant in animals.

**Dermal or Respiratory** 

**Reproductive Effects** 

Sensitization

None anticipated from normal handling of this product. However, allergic

anaphylactoid reactions, and anaphylaxis have been reported during the clinical use of

this product in patients.

None anticipated from normal handling of this product. Dietary administration of an

equivalent of the maximum human therapeutic dose of aminocaproic acid to rats of both sexes impaired fertility as evidenced by decreased implantations, litter sizes and

number of pups born. Animal reproduction studies have not been conducted with

aminocaproic acid.

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## 11. TOXICOLOGICAL INFORMATION: continued

Studies to evaluate the mutagenic potential of aminocaproic acid have not been Mutagenicity

conducted.

Long-term studies in animals to evaluate the carcinogenic potential of aminocaproic

acid.

NA

**Carcinogen Lists** IARC: Not listed NTP: Not listed **OSHA:** Not listed

**Specific Target Organ Toxicity** 

**Specific Target Organ Toxicity** 

- Single Exposure

Carcinogenicity

Based on clinical use, potential target organs include the blood and cardiovascular

- Repeat Exposure system.

### 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity** Not determined for product.

Not determined for product. Persistence/Biodegradability

**Bioaccumulation** Not determined for product.

**Mobility in Soil** Not determined for product.

Notes:

#### 13. DISPOSAL CONSIDERATIONS

All waste materials must be properly characterized. Further, disposal should be Waste Disposal

performed in accordance with the federal, state or local regulatory requirements.

**Container Handling and** 

Dispose of container and unused contents in accordance with federal, state and local

**Disposal** regulations.

## 14. TRANSPORTATION INFORMATION

ADR/ADG/ DOT STATUS Not regulated

**Proper Shipping Name** NA **Hazard Class** NA **UN Number** NA **Packing Group** NA **Reportable Quantity** NA

ICAO/IATA STATUS Not regulated

**Proper Shipping Name** NA **Hazard Class** NA **UN Number** NA **Packing Group** NA **Reportable Quantity** NA

**IMDG STATUS** Not regulated

**Proper Shipping Name** NA **Hazard Class** NA **UN Number** NA **Packing Group** NA **Reportable Quantity** NA

Notes: DOT - US Department of Transportation Regulations



## 15. REGULATORY INFORMATION

US TSCA Status	Exempt
US CERCLA Status	Not listed
US SARA 302 Status	Not listed
US SARA 313 Status	Not listed
US RCRA Status	Not listed
US PROP 65 (Calif.)	Not listed

Notes: TSCA, Toxic Substance Control Act; CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act; SARA, Superfund Amendments and Reauthorization Act; RCRA, US EPA, Resource Conservation and Recovery Act; Prop 65, California Proposition 65

#### **GHS/CLP Classification\***

\*In the EU, classification under GHS/CLP does not apply to certain substances and mixtures, such as medicinal products as defined in Directive 2001/83/EC, which are in the finished state, intended for the final user.

Hazard Class	<b>Hazard Category</b>	Pictogram	Signal Word	<b>Hazard Statement</b>
NA	NA	NA	NA	NA
<b>5</b>	<b>5</b>			

**Prevention** Do not breathe vapor or spray.

Wear protective gloves

Wear eye protection/face protection. Wash hands thoroughly after handling.

**Response** Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical

attention

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it

before reuse. If skin irritation occurs: Get medical advice/attention.

**EU Classification**\* \*Medicinal products are exempt from the requirements of the EU Dangerous

Preparations Directive.

Classification(s) NA
Symbol NA
Indication of Danger NA
Risk Phrases NA

Safety Phrases S23: Do not breathe vapor/spray

S24: Avoid contact with the skin S25: Avoid contact with eyes

S37/39 Wear suitable gloves and eye/face protection.



#### 16. OTHER INFORMATION

Notes:

ACGIH TLV American Conference of Governmental Industrial Hygienists – Threshold Limit Value

CAS Chemical Abstracts Service Number

CERCLA US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act

DOT US Department of Transportation Regulations

EEL Employee Exposure Limit

IATA International Air Transport Association LD<sub>50</sub> Dosage producing 50% mortality NA Not applicable/Not available

NE Not established

NIOSH National Institute for Occupational Safety and Health

OSHA PEL US Occupational Safety and Health Administration – Permissible Exposure Limit

Prop 65 California Proposition 65

RCRA US EPA, Resource Conservation and Recovery Act
RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act

STEL 15-minute Short Term Exposure Limit

STOT - SE Specific Target Organ Toxicity – Single Exposure STOT - RE Specific Target Organ Toxicity – Repeated Exposure

TSCA Toxic Substance Control Act
TWA 8-hour Time Weighted Average

MSDS Coordinator: Hospira GEHS
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