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MATERIAL SAFETY DATA SHEET

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PAGE 1 of 3

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Section 1 - Substance Identity and Company Contact Information

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Product Name: Anticoagulant Citrate Dextrose Solution, Solution A (ACD-A)  
Manufacturer: Cytosol Laboratories, Inc.  
Telephone: (781) 848-9386 Fax: (781) 848-6781  
Type of Use: Citrate Based Anticoagulant Solution

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Section 2 - Chemical Composition and Data on Components

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<u>Chemical Component of the Product</u>	<u>Composition</u>	<u>CAS No.</u>
Citric Acid, anhydrous	<1%	77-92-9
Sodium Citrate, dihydrate	<3%	68-04-2
Dextrose, anhydrous	<3%	50-99-7
In Water for Injection	≤93%	NA

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Section 3 - Hazards Identification

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Specific Risks: Irritant to eyes.

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Section 4 - First Aid Measures

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Skin Contact: Flush the skin with a copious amount of water. Remove contaminated clothing. Wash before re-use.  
Eye Contact: Flush thoroughly with a copious amount of water and also under the eyelids for at least 15 minutes.  
Ingestion: Drink plenty of water, do not induce vomiting, and seek medical attention, if necessary

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Section 5 - Fire-fighting Measures

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Exposure Hazards: May form oxides of carbon.

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Section 6 - Accidental Release Measures

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Personal Protection: Wear gloves and eye protection.  
Environmental Risks: Not considered harmful to the environment.  
Clean-up Procedure: If local regulation permits, mop up with plenty of water and discharge to waste. Dilute with a copious amount of water. Otherwise, contain with sand and transfer to salvage container and dispose according to local regulation.

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MATERIAL SAFETY DATA SHEET

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PAGE 2 of 3

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Section 7 - Handling and Storage

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Precaution During Handling: Wear personal protection  
Storage Conditions: Recommended storage temperature is 15 – 30° C.  
Hazard Reactions: Avoid contact with strong oxidizing agents and strong bases.

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Section 8 - Exposure Controls and Personal Protection

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Personal Protection: Wear gloves and eye protection.  
Exposure Limits: None assigned.

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Section 9 - Physical and Chemical Properties

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Chemical Formulation: Trisodium-2-Hydroxypropane-1,2,3,-Tricarboxylate, 2-Hydroxy-1,2,3-Propanetricarboxylic acid, Dextrose, and H<sub>2</sub>O  
Physical State: Liquid  
pH: 4.5 – 5.5  
Flammability: Non-flammable

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Section 10 - Stability and Reactivity

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Product Stability: 36 months for the 50 mL fill volume and 42 months for the 30 mL fill volume  
Hazardous Reaction: Avoid contact with strong oxidizing agents and strong bases.  
Hazardous Decomposition Products: No decomposition when stored under recommended storage conditions.

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Section 11 - Toxicological Information

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Toxicological Information: No toxic effects are expected when use as directed. Citrate toxicity can occur is the product is infused (refer to package insert).

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Section 12 - Ecological Information

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Ecological Information: None if handled as directed. All ingredients that comprise this product are found in nature.

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MATERIAL SAFETY DATA SHEET

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PAGE 3 of 3

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Section 13 - Disposal Considerations

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Disposal of Residue: If local regulation permits, discharge to waste with plenty of water and discharge to waste. Otherwise, dispose according to local regulation.

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Section 14 - Transport Information

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Transportation Regulation: Not dangerous according to transportation regulations.

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Section 15 - Regulations

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Regulations: Not applicable.

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Section 16 – Special Information

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Special Information: Not applicable.

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Legal Disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Cytosol Laboratories, Inc., shall not be held liable for any damages resulting from handling or from contact with the above product. This Data Sheet does not exempt the user knowing and applying regulations concerning his/her activity. He/her will have the sole responsibility regarding the use of the product as well as the precautions linked to its use. This data sheet cannot be considered to be exhaustive and does not exempt the user finding out about other regulations that might apply to the storage of the product for which he/she is solely responsible.