



## Material Safety Data Sheet

**MSDS:** 206031

**Effective Date:** February 25, 2003

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### PRODUCT IDENTIFICATION AND COMPANY

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**Product Name:** CDS Ac-T Diff Reagent Set  
**Synonyms:** Hematology Reagent Set for Coulter Ac-T Diff Analyzers  
**NIOSH/RTECS Number:** None  
**CAS No.:** None

**Product Number(s):** 501-028

**Manufacturer:** Clinical Diagnostic Solutions, Inc.  
1800 Northwest 65<sup>th</sup> Avenue  
Plantation, FL 33313 USA

**EMERGENCY PHONE:** (954) 791-1773

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### COMPONENTS

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<u>Component</u>	<u>CAS Number</u>
Hematology Diluent	None
3-PD/C Lytic Reagent	None

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### TRANSPORTATION INFORMATION

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Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT).  
Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.



## Material Safety Data Sheet

MSDS: 206001

Effective Date: January 15, 2002

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### SECTION I - PRODUCT IDENTIFICATION AND COMPANY

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**Product Name:** Hematology Diluent  
**Synonyms:** Diluent  
**NIOSH/RTECS Number:** None  
**CAS No.:** None

**Product Number(s):** Component of 501-028

**Manufacturer:** Clinical Diagnostic Solutions, Inc.  
1660 Northwest 65<sup>th</sup> Avenue, Suite 2  
Plantation, FL 33313 USA

**EMERGENCY PHONE:** (954) 791-1773

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### SECTION II - INGREDIENTS

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<u>Component</u>	<u>Concentration</u>	<u>CAS Number</u>
Contains no hazardous ingredients		

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### SECTION III – HAZARDS IDENTIFICATION

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**CDS Safety Information:**

	<u>Code</u>
[1] Health	0 = None
[0] Flammability	1 = Slight
[0] Reactivity	2 = Caution
[0] Contact	3 = Severe

**Physical Hazards:** None

**Potential Health Effects:** This product is not considered hazardous under OSHA, EU or WHMIS criteria.

**Product Hazard Classification:** OSHA – Not applicable  
EU – Not applicable  
WHMIS – Exempt

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### SECTION IV – FIRST AID MEASURES

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**Eye Contact:** Flush eyes thoroughly with water. If irritation occurs, seek medical attention.

**Ingestion:** Wash contact surfaces with water. Seek medical attention if swallowed.

**Inhalation:** Move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately. Seek medical attention immediately.

**Skin Contact:** Wash affected area with water for at least 15 minutes.

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**SECTION V - FIRE AND EXPLOSION HAZARD DATA**

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<b>Flashpoint:</b>	Not applicable
<b>Flammable Limits:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Fire Extinguishing Media:</b>	Any. Non-flammable, does not support combustion.
<b>Special Fire and Explosion Hazards:</b>	None
<b>Hazardous Combustion Products:</b>	None
<b>Firefighter Protective Equipment:</b>	Self-contained breathing apparatus.

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**SECTION VI – ACCIDENTAL RELEASE MEASURES**

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<b>Personal Precautions:</b>	No special precautions required. Use good laboratory practice.
<b>Spills and Leaks:</b>	Dispose through a sanitary sewer, or use absorbent material and dispose as non-hazardous solid waste. Disposal must comply with Federal, State and Local requirements.
<b>Environmental Precautions:</b>	Contain spill to prevent contamination of surrounding areas.

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**SECTION VII - HANDLING AND STORAGE PRECAUTIONS**

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<b>Handling Precautions:</b>	No special precautions required. Use good laboratory practice.
<b>Storage Conditions:</b>	Store at 2 to 30°C (30 to 86°F).

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**SECTION VIII – EXPOSURE CONTROL AND PERSONAL PROTECTION**

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<b>Exposure Limits:</b>	OSHA – None established ACGIH – None established DFG MAK – None established
<b>Engineering Controls:</b>	Use in well ventilated areas.
<b>Respiratory Protection:</b>	Under normal use conditions, no respiratory protection is required.
<b>Eye Protection:</b>	Safety glasses, goggles or face shield recommended.
<b>Skin Protection:</b>	Latex or equivalent gloves recommended.

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**SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Boiling Point:</b>	~ 100°C	<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Melting Point:</b>	N/A	<b>Vapor Density (Air = 1):</b>	N/A
<b>Specific Gravity:</b>	1.0 (Water = 1)	<b>Evaporation Rate</b>	
<b>Solubility (water):</b>	Miscible	<b>(butyl acetate = 1):</b>	N/A
<b>Appearance and Color:</b>	Clear, colorless liquid		

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**SECTION X - REACTIVITY DATA**

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<b>Stability:</b>	Stable at normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Keep away from aqueous-sensitive materials. Avoid freezing.
<b>Hazardous Incompatibility:</b>	None
<b>Decomposition Products:</b>	None

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SECTION XI – TOXICOLOGICAL INFORMATION

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<b>Toxicity of Hazardous Ingredients:</b>	None
<b>Primary Routes of Exposure:</b>	Contact with eyes, mucous membranes, skin punctures, ingestion and inhalation.
<b>Effects of Acute Exposure:</b>	None identified.
<b>Effects of Chronic Exposure:</b>	None identified.
<b>Symptoms of Overexposure:</b>	No specific symptoms identified.
<b>Carcinogenicity:</b>	Contains no ingredients listed as potential carcinogens by ACGIH, IARC, NTP or OSHA.
<b>Other Effects:</b>	None known.
<b>Conditions Aggravated by Exposure:</b>	None known.

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SECTION XII – ECOLOGICAL INFORMATION

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<b>Ecotoxicity:</b>	No information available.
<b>Biodegradability:</b>	No information available.
<b>Mobility:</b>	No information available.

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SECTION XIII – WASTE DISPOSAL

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<b>Waste Disposal:</b>	Waste disposal must comply with Federal, State and Local requirements. Contact local authorities for information.
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SECTION XIV – TRANSPORT INFORMATION

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<b>Transport Regulations:</b>	Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.
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SECTION XV – REGULATORY INFORMATION

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<b>US Regulatory Information:</b>	
SARA 313:	Formaldehyde generated over time is subject to reporting requirements specified by Section 313, Title III of SARA.
California Proposition 65:	Formaldehyde has been identified by the State of California to cause cancer. Regulation requires a warning to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. <b>WARNING:</b> This product contains a chemical known to the State of California to cause cancer.
Massachusetts MSL:	Formaldehyde is listed. Sodium sulfate is listed.
New Jersey Dept. of Health RTK:	Formaldehyde is listed.
Pennsylvania RTK:	Formaldehyde is listed. Sodium sulfate is listed.
Florida Substance List:	Formaldehyde is listed.
<b>Canada:</b>	Product is exempt from WHMIS and MSDS requirements.
<b>Ingredients on Disclosure List:</b>	Formaldehyde
<b>Ingredients with Unknown Toxicological Properties:</b>	None

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SECTION XVI – OTHER INFORMATION

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For further information, please contact Clinical Diagnostic Solutions, Inc.

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Clinical Diagnostic Solutions, Inc. believes the information contained herein to be valid and accurate. No warranties or representations are made or implied as to its validity, accuracy or currency. Clinical Diagnostic Solutions, Inc. shall not be liable or otherwise responsible in any way for the use of this information. Disposal of hazardous materials may be subject to local laws or regulation.



## Material Safety Data Sheet

MSDS: 206011

Effective Date: January 15, 2002

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### SECTION I - PRODUCT IDENTIFICATION AND COMPANY

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**Product Name:** 3-PD/C Lytic Reagent  
**Synonyms:** Stromatolyse reagent  
**NIOSH/RTECS Number:** None  
**CAS No.:** None

**Product Number(s):** Component of 501-028  
**Manufacturer:** Clinical Diagnostic Solutions, Inc.  
1660 Northwest 65<sup>th</sup> Avenue, Suite 2  
Plantation, FL 33313 USA

**EMERGENCY PHONE:** (954) 791-1773

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### SECTION II - INGREDIENTS

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<u>Component</u>	<u>Concentration</u>	<u>CAS Number</u>
2-Propanol	< 2.5% w/v	67-63-0
Quaternary ammonium salt	< 3.5% w/v	*

\*The identities of these components have been withheld as a trade secret. All hazard and property information is included in this MSDS.

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### SECTION III – HAZARDS IDENTIFICATION

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**CDS Safety Information:**

[2] Health  
[0] Flammability  
[0] Reactivity  
[2] Contact

**Code**

0 = None  
1 = Slight  
2 = Caution  
3 = Severe

**Physical Hazards:** None  
**Potential Health Effects:** Contact irritant for eyes and mucous membranes  
**Product Hazard Classification:** OSHA – Hazardous  
EU – Not applicable  
WHMIS – Exempt

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### SECTION IV – FIRST AID MEASURES

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**Eye Contact:** Flush eyes thoroughly with water. If irritation occurs, seek medical attention.

**Ingestion:** Wash contact surfaces with water. Contact poison control center or seek medical attention if swallowed.

**Inhalation:** Move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately. Seek medical attention immediately.

**Skin Contact:** Wash affected area with water for at least 15 minutes.

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SECTION V - FIRE AND EXPLOSION HAZARD DATA

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**Flashpoint:** Not applicable  
**Flammable Limits:** Not applicable  
**Autoignition Temperature:** Not applicable  
**Fire Extinguishing Media:** Any. Does not support combustion.  
**Special Fire and Explosion Hazards:** None  
**Hazardous Combustion Products:** None  
**Firefighter Protective Equipment:** Self-contained breathing apparatus.

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SECTION VI – ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** No special precautions required. Use good laboratory practice.  
**Spills and Leaks:** Dispose through a sanitary sewer, or use absorbent material and dispose as non-hazardous solid waste. Disposal must comply with Federal, State and Local requirements.  
**Environmental Precautions:** Contain spill to prevent contamination of surrounding areas.

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SECTION VII - HANDLING AND STORAGE PRECAUTIONS

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**Handling Precautions:** Avoid eye and mucous membrane contact. Use good laboratory practice.  
**Storage Conditions:** Store at 2 to 30°C (30 to 86°F).

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SECTION VIII – EXPOSURE CONTROL AND PERSONAL PROTECTION

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**Exposure Limits:** OSHA – None established  
ACGIH – 2-Propanol: 500 ppm STEL; 400 ppm TWA  
DFG MAK – 2-Propanol: 200 ppm MAK; 500 mg/m<sup>3</sup> MAK  
**Engineering Controls:** Use in well ventilated areas.  
**Respiratory Protection:** Under normal use conditions, no respiratory protection is required.  
**Eye Protection:** Safety glasses, goggles or face shield recommended.  
**Skin Protection:** Latex or equivalent gloves recommended.

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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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<b>Boiling Point:</b>	N/A	<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Melting Point:</b>	N/A	<b>Vapor Density (Air = 1):</b>	N/A
<b>Specific Gravity:</b>	1.05 (Water = 1)	<b>Evaporation Rate</b>	
<b>Solubility (water):</b>	Miscible	<b>(butyl acetate = 1):</b>	N/A
<b>Appearance and Color:</b>	Clear, colorless liquid		

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SECTION X - REACTIVITY DATA

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**Stability:** Stable at normal temperatures and pressures.  
**Conditions to Avoid:** Avoid freezing. Keep away from incompatible materials.  
**Hazardous Incompatibility:** Strong acids, strong oxidizers  
**Decomposition Products:** None

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**SECTION XI – TOXICOLOGICAL INFORMATION**

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<b>Toxicity of Hazardous Ingredients:</b>	2-Propanol: Inhalation: LD50 (Rat) = 16,000 ppm/8 hr. shift Ingestion: LD50 (Rat) = 5,045 mg/kg; LD50 (Mouse) = 3,600 mg/kg Skin: LD50 (Rabbit) = 12,800 mg/kg
<b>Primary Routes of Exposure:</b>	Contact with eyes, mucous membranes, skin and inhalation.
<b>Effects of Acute Exposure:</b>	Eyes: Severe burns, irritation, possible loss of sight. Inhalation: Coughing, difficulty in breathing Skin: Irritation and redness Ingestion: Burning in mouth throat, stomach; nausea, vomiting, diarrhea, shock and loss of consciousness. Full toxicological properties have not been determined for this product.
<b>Effects of Chronic Exposure:</b>	Eye, inhalation and skin effects are similar to acute exposure. No long-term effects of ingestion have been reported in humans.
<b>Symptoms of Overexposure:</b>	Eyes: Redness, burning and watering. Inhalation: Coughing, difficulty breathing, depression and coma. Skin: Redness, dry, cracking. Ingestion: Burning mouth, throat, stomach, nausea, vomiting, diarrhea, shock and loss of consciousness.
<b>Carcinogenicity:</b>	Contains no ingredients listed as potential carcinogens by ACGIH, IARC, NTP or OSHA.
<b>Other Effects:</b>	None known.
<b>Conditions Aggravated by Exposure:</b>	Acute or chronic eye and skin conditions may be aggravated by this product.

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**SECTION XII – ECOLOGICAL INFORMATION**

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<b>Ecotoxicity:</b>	Toxic to fish and other water-borne organisms.
<b>Biodegradability:</b>	No information available.
<b>Mobility:</b>	No information available.

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**SECTION XIII – WASTE DISPOSAL**

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<b>Waste Disposal:</b>	Waste disposal must comply with Federal, State and Local requirements. Contact local authorities for information.
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**SECTION XIV – TRANSPORT INFORMATION**

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<b>Transport Regulations:</b>	Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.
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**SECTION XV – REGULATORY INFORMATION**

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<b>US Regulatory Information:</b>	
SARA 313:	2-Propanol is subject to reporting requirements specified by Section 313, Title III of SARA.
California Proposition 65:	No compounds listed.
Massachusetts MSL:	2-Propanol is listed. Potassium cyanide is listed.
New Jersey Dept. of Health RTK:	2-Propanol is listed. Potassium cyanide is listed.
Pennsylvania RTK:	2-Propanol is listed. Potassium cyanide is listed.



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SECTION XV – REGULATORY INFORMATION (Continued)

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<b>Canada:</b>	Product is exempt from WHMIS and MSDS requirements.
<b>Ingredients on Disclosure List:</b>	2-Propanol
<b>Ingredients with Unknown</b>	
<b>Toxicological Properties:</b>	Exempt product
<b>EU:</b>	No dangerous ingredients listed.

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SECTION XVI – OTHER INFORMATION

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For further information, please contact Clinical Diagnostic Solutions, Inc.

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Clinical Diagnostic Solutions, Inc. believes the information contained herein to be valid and accurate. No warranties or representations are made or implied as to its validity, accuracy or currency. Clinical Diagnostic Solutions, Inc. shall not be liable or otherwise responsible in any way for the use of this information. Disposal of hazardous materials may be subject to local laws or regulation.