



Material Safety Data Sheet

MSDS: 206018

Effective Date: January 25, 2002

PRODUCT IDENTIFICATION AND COMPANY

Product Name: CDS *Spirit* Reagent Set
Synonyms: Hematology Reagent Set for Spirit Analyzers
NIOSH/RTECS Number: None
CAS No.: None

Product Number(s): 501-106

Manufacturer: Clinical Diagnostic Solutions, Inc.
1800 Northwest 65th Avenue
Plantation, FL 33313 USA

EMERGENCY PHONE: (954) 791-1773

COMPONENTS

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

TRANSPORTATION INFORMATION

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

SECTION I - PRODUCT IDENTIFICATION AND COMPANY

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

Product Number(s): Component of 501-106

Manufacturer: Clinical Diagnostic Solutions, Inc.
1660 Northwest 65th Avenue, Suite 2
Plantation, FL 33313 USA

EMERGENCY PHONE: (954) 791-1773

SECTION II - INGREDIENTS

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

SECTION III – HAZARDS IDENTIFICATION

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

SECTION IV – FIRST AID MEASURES

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.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

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

SECTION VI – ACCIDENTAL RELEASE MEASURES

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.

SECTION VII - HANDLING AND STORAGE PRECAUTIONS

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

SECTION VIII – EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits:	OSHA – None established ACGIH – None established DFG MAK – None established
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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION X - REACTIVITY DATA

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

SECTION XI – TOXICOLOGICAL INFORMATION

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

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity:	No information available.
Biodegradability:	No information available.
Mobility:	No information available.

SECTION XIII – WASTE DISPOSAL

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

Transport Regulations:	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

US Regulatory Information:	
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. WARNING: 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.
Canada:	Product is exempt from WHMIS and MSDS requirements.
Ingredients on Disclosure List:	Formaldehyde
Ingredients with Unknown Toxicological Properties:	None

SECTION XVI – OTHER INFORMATION

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

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

SECTION I - PRODUCT IDENTIFICATION AND COMPANY

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

Product Number(s): Component of 501-106
Manufacturer: Clinical Diagnostic Solutions, Inc.
1660 Northwest 65th Avenue, Suite 2
Plantation, FL 33313 USA

EMERGENCY PHONE: (954) 791-1773

SECTION II - INGREDIENTS

<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.

SECTION III – HAZARDS IDENTIFICATION

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

SECTION IV – FIRST AID MEASURES

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.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

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.

SECTION VI – ACCIDENTAL RELEASE MEASURES

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.

SECTION VII - HANDLING AND STORAGE PRECAUTIONS

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

SECTION VIII – EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits: OSHA – None established
ACGIH – 2-Propanol: 500 ppm STEL; 400 ppm TWA
DFG MAK – 2-Propanol: 200 ppm MAK; 500 mg/m³ 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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION X - REACTIVITY DATA

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

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity of Hazardous Ingredients:	2-Propranol: 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
Primary Routes of Exposure:	Contact with eyes, mucous membranes, skin and inhalation.
Effects of Acute Exposure:	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.
Effects of Chronic Exposure:	Eye, inhalation and skin effects are similar to acute exposure. No long-term effects of ingestion have been reported in humans.
Symptoms of Overexposure:	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.
Carcinogenicity:	Contains no ingredients listed as potential carcinogens by ACGIH, IARC, NTP or OSHA.
Other Effects:	None known.
Conditions Aggravated by Exposure:	Acute or chronic eye and skin conditions may be aggravated by this product.

SECTION XII – ECOLOGICAL INFORMATION

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

SECTION XIII – WASTE DISPOSAL

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

Transport Regulations:	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

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

SECTION XV – REGULATORY INFORMATION (Continued)

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

SECTION XVI – OTHER INFORMATION

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

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.