



## Material Safety Data Sheet

**MSDS:** 206032

**Effective Date:** January 29, 2002

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### SECTION I - PRODUCT IDENTIFICATION AND COMPANY

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**Product Name:** CDS Enzymatic Cleaner Concentrate  
**Synonyms:** Enzyme-based cleaner for Coulter Model MD II  
**NIOSH/RTECS Number:** None  
**CAS No.:** None

**Product Number(s):** 501-013  
**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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### SECTION II - INGREDIENTS

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<u>Component</u>	<u>Concentration</u>	<u>CAS Number</u>
Buffer (proprietary)	2% w/v	--
Propylene glycol	<2.5% w/v	57-55-6
Subtilisin	<2.5% w/v	9014-01-1

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### SECTION III – HAZARDS IDENTIFICATION

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**CDS Safety Information:**

[1] Health  
[0] Flammability  
[0] Reactivity  
[0] Contact

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

**Physical Hazards:** None  
**Potential Health Effects:** Potential irritant to eyes and skin. Allergen or sensitizer if inhaled.  
**Product Hazard Classification:** OSHA – Hazardous  
EU – Not applicable  
WHMIS – Not applicable

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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. Seek medical attention if signs of irritation occur.

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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>	Avoid contact with eyes and skin. Prevent aerosol formation. 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 – Subtilisin: TLV – C 0.00006 mg/m <sup>3</sup> ; STEL/C – 0.00006 mg/m <sup>3</sup> Irritation of lung, immune sensitization. DFG MAK – None established
<b>Engineering Controls:</b>	No special controls required.
<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>	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>	1.03 (Water = 1)	<b>Evaporation Rate</b>	
<b>Solubility (water):</b>	Miscible	<b>(butyl acetate = 1):</b>	N/A
<b>Appearance and Color:</b>	Clear, amber liquid	<b>pH:</b>	7.6

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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>	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>	Propylene glycol: Ingestion: LD50 (Mammal) = 10,000 – 33,700 mg/kg Skin: LD50 (Rabbit) = 20,800 mg/kg Subtilisin: Ingestion: LD50 (Rat) = 2,000 mg/kg
<b>Primary Routes of Exposure:</b>	Contact with eyes, mucous membranes, and skin
<b>Effects of Acute Exposure:</b>	Irritant to eyes, mucous membranes and skin. Immune sensitization possible through inhalation.
<b>Effects of Chronic Exposure:</b>	Similar to acute exposure.
<b>Symptoms of Overexposure:</b>	Irritation of eyes, skin and mucous membranes.
<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>	Inhalant allergies.

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## SECTION XII – ECOLOGICAL INFORMATION

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<b>Ecotoxicity:</b>	Potentially toxic to fish and other marine 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 under US DOT, IATA, ICAO, Canadian TDG or European ADR.
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## SECTION XV – REGULATORY INFORMATION

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### US Regulatory Information:

SARA 313: None listed.

California Proposition 65: None listed.

Massachusetts MSL: None listed.

New Jersey Dept.  
of Health RTK: None listed.

Pennsylvania RTK: None listed.

Florida Substance List: None listed.

**EU:** No dangerous ingredients.

**Canada:** Product is exempt from WHMIS and MSDS requirements.

**Ingredients on Disclosure List:** None

**Ingredients with Unknown**

**Toxicological Properties:** 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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