



Material Safety Data Sheet

MSDS: 206030

Effective Date: December 2, 2002

SECTION I - PRODUCT IDENTIFICATION AND COMPANY

Product Name: CDS Quik Lyse Reagent
Synonyms: Lysing agent for manual and semi-automated cell counters
NIOSH/RTECS Number: None
CAS No.: None

Product Number(s): 501-114
Manufacturer: Clinical Diagnostic Solutions, Inc.
1800 Northwest 65th Avenue
Plantation, FL 33313 USA

EMERGENCY PHONE: (954) 791-1773

SECTION II - INGREDIENTS

<u>Component</u>	<u>Concentration</u>	<u>CAS Number</u>
Quaternary ammonium salt	< 4.8% w/v	*
Potassium cyanide	< 0.1% w/v	151-50-8

*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:

	<u>Code</u>
[2] Health	0 = None
[0] Flammability	1 = Slight
[0] Reactivity	2 = Caution
[2] Contact	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 – 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:	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	pH:	10.5

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:	Quaternary ammonium salt: Ingestion: LD50 (Mouse) = 536 mg/kg Skin: LD50 (Mouse) = 1600 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 in 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:	No compounds listed.
California Proposition 65:	No compounds listed.
Massachusetts MSL:	Potassium cyanide is listed.
New Jersey Dept. of Health RTK:	Potassium cyanide is listed.

SECTION XV – REGULATORY INFORMATION (Continued)

Pennsylvania RTK:	Potassium cyanide is listed.
Canada:	Product is exempt from WHMIS and MSDS requirements.
EU:	No dangerous ingredients listed.
Ingredients on Disclosure List:	None
Ingredients with Unknown	
Toxicological Properties:	Exempt product

SECTION XVI – OTHER INFORMATION

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

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