

# Material Safety Datasheet (MSDS)

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## Column-Pure Gel and PCR Clean-Up Kit (Cat. No. D516)

<b>Kit Components</b>
Binding Buffer
Wash Buffer (concentrate)
Elution Buffer



**Applied Biological Materials Inc.**

1-3671 Viking Way, Richmond  
BC, CANADA, V6V 2J5  
[www.abmgood.com](http://www.abmgood.com)

**Updated: 08/12/2020**  
**Version 2.2**

# Material Safety Datasheet (MSDS)

Updated: 24/07/2024

Version 2.2

www.abmgood.com

Applied Biological Materials Inc.

1-3671 Viking Way,

Richmond, BC, CANADA

V6V 2J5

## Section 1 – Product and Company Information

<b>Product Name</b>	Column-Pure Gel and PCR Clean-Up Kit
<b>Catalog # From Manufacturer</b>	D516 Binding Buffer
<b>Original Manufacturer</b>	Applied Biological Materials, Inc
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Technical Phone</b>	604-247-2416

<b>Company</b>	Applied Biological Materials Inc.
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Fax</b>	604-247-2414
<b>Emergency Phone</b>	866-757-2414

## Section 2 – Composition/Information on Ingredient

<b>Substance Name</b>	Guanidine thiocyanate
<b>CAS Number</b>	593-84-0
<b>Concentration</b>	<65%
<b>Other Components</b>	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

## Section 3 – Hazards Identification

<b>HMIS Classification</b>	<ul style="list-style-type: none"> <li>• Health Hazard: 2</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>
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<b>NFPA Rating</b>	<ul style="list-style-type: none"> <li>• Health Hazard: 2</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>
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## Section 4 – First Aid Measures

<b>Eye Contact</b>	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
<b>Inhalation</b>	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 – Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	Do not allow run-off from fire fighting to enter drains or water courses. Exposure to decomposition products may be a hazard to health.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
<b>Methods for Cleaning Up</b>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 – Handling and Storage

<b>Handling</b>	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated area. Store at room

	temperature.
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## Section 8 – Exposure Controls/ PPE

<b>Engineering Controls</b>	Safety shower and eye bath. Mechanical exhaust required.
<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>• Hand: Protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).</li> <li>• Eye: Chemical safety goggles. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.</li> </ul>
<b>General Hygiene Measures</b>	Avoid contact with the skin and eyes. Wash thoroughly after handling.

## Section 9 – Physical and Chemical Properties

<b>Odour</b>	Characteristic.
<b>Melting Point</b>	No data available.
<b>Boiling Temperature (°C)</b>	No data available.
<b>Density</b>	No data available.
<b>Vapour Pressure</b>	No data available.
<b>Solubility in Water</b>	Soluble.
<b>Flash Point</b>	No data available.
<b>Explosion Limits</b>	No data available.
<b>Ignition Temperature</b>	No data available.

## Section 10 – Stability and Reactivity

<b>Stability</b>	<ul style="list-style-type: none"> <li>• Stable under recommended storage conditions.</li> <li>• Materials to Avoid: No dangerous reaction known under normal conditions.</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>• Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.</li> </ul>

## Section 11 – Toxicological Information

<b>Route of Exposure</b>	<ul style="list-style-type: none"><li>• Skin Contact: Acute toxicity estimate: 2,926 mg/kg.</li><li>• Inhalation: Acute toxicity estimate: 29.26 mg/l. Exposure time: 4h. Test atmosphere: vapor.</li><li>• Ingestion: Acute toxicity estimate: 1,578 mg/kg.</li></ul>
<b>Signs and Symptoms of Exposure</b>	Extremely corrosive and destructive to tissue. Causes skin burns and eye damage.

## Section 12 – Ecological Information

N/A

## Section 13 – Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

## Section 14 – Transportation Information

<b>DOT</b>	<ul style="list-style-type: none"><li>• This substance is considered to be non-hazardous for transport.</li></ul>
<b>IATA</b>	<ul style="list-style-type: none"><li>• Non-Hazardous for Air Transport: Non-hazardous for air transport.</li></ul>

## Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

## Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

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Richmond, BC, CANADA  
V6V 2J5

## Section 1 – Product and Company Information

<b>Product Name</b>	Column-Pure Gel and PCR Clean-Up Kit
<b>Catalog # From Manufacturer</b>	D516 Wash Buffer (concentrate)
<b>Original Manufacturer</b>	Applied Biological Materials, Inc
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Technical Phone</b>	604-247-2416

<b>Company</b>	Applied Biological Materials Inc.
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Fax</b>	604-247-2414
<b>Emergency Phone</b>	866-757-2414

## Section 2 – Composition/Information on Ingredient

<b>Other Components</b>	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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## Section 3 – Hazards Identification

<b>HMIS Classification</b>	<ul style="list-style-type: none"> <li>• Health Hazard: 0</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>
<b>NFPA Rating</b>	<ul style="list-style-type: none"> <li>• Health: 0</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>

## Section 4 – First Aid Measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Generally the product does not irritate the skin. Wash off with soap and plenty of water.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms persist.

## Section 5 – Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	No special measures required.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
<b>Methods for Cleaning Up</b>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 – Handling and Storage

<b>Handling</b>	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

## Section 8 – Exposure Controls/ PPE

<b>Engineering Controls</b>	Safety shower and eye bath. Mechanical exhaust required.
<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"><li>Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.</li><li>Hand: Protective gloves.</li></ul>

	<ul style="list-style-type: none"> <li>• Eye: Chemical safety goggles.</li> </ul>
<b>General Hygiene Measures</b>	Wash thoroughly after handling.

## Section 9 – Physical and Chemical Properties

<b>Odour</b>	Characteristic
<b>Melting Point</b>	No data available.
<b>Boiling Temperature (°C)</b>	No data available.
<b>Density</b>	No data available.
<b>Vapour Pressure</b>	No data available.
<b>Solubility in Water</b>	Soluble.
<b>Flash Point</b>	No data available.
<b>Explosion Limits</b>	No data available.
<b>Ignition Temperature</b>	No data available.

## Section 10 – Stability and Reactivity

<b>Stability</b>	<ul style="list-style-type: none"> <li>• Stable under recommended storage conditions.</li> <li>• Materials to Avoid: No dangerous reaction known under normal conditions.</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>• None under normal conditions.</li> </ul>
<b>Hazardous Polymerization</b>	<ul style="list-style-type: none"> <li>• Will not occur.</li> </ul>

## Section 11 – Toxicological Information

<b>Route of Exposure</b>	<ul style="list-style-type: none"> <li>• Skin Contact: May cause skin irritation.</li> <li>• Skin Absorption: May be harmful if absorbed through the skin.</li> <li>• Eye Contact: May cause eye irritation.</li> <li>• Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.</li> <li>• Ingestion: May be harmful if swallowed.</li> </ul>
<b>Signs and Symptoms of Exposure</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



## Section 12 – Ecological Information

N/A

## Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

## Section 14 – Transportation Information

DOT	<ul style="list-style-type: none"><li>This substance is considered to be non-hazardous for transport.</li></ul>
IATA	<ul style="list-style-type: none"><li>Non-hazardous for air transport.</li></ul>

## Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

## Section 16 – Other Information

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## Section 1 – Product and Company Information

<b>Product Name</b>	Column-Pure Gel and PCR Clean-Up Kit
<b>Catalog # From Manufacturer</b>	D516 Elution Buffer
<b>Original Manufacturer</b>	Applied Biological Materials, Inc
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Technical Phone</b>	604-247-2416

<b>Company</b>	Applied Biological Materials Inc.
<b>Address</b>	#1-3671 Viking Way Richmond BC V6V 2J5 CA
<b>Fax</b>	604-247-2414
<b>Emergency Phone</b>	866-757-2414

## Section 2 – Composition/Information on Ingredient

<b>Other Components</b>	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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## Section 3 – Hazards Identification

<b>HMIS Classification</b>	<ul style="list-style-type: none"> <li>• Health Hazard: 0</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>
<b>NFPA Rating</b>	<ul style="list-style-type: none"> <li>• Health: 0</li> <li>• Flammability: 0</li> <li>• Reactivity: 0</li> </ul>

## Section 4 – First Aid Measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Generally the product does not irritate the skin. Wash off with soap and plenty of water.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms persist.

## Section 5 – Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	No special measures required.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
<b>Methods for Cleaning Up</b>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 – Handling and Storage

<b>Handling</b>	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

## Section 8 – Exposure Controls/ PPE

<b>Engineering Controls</b>	Safety shower and eye bath. Mechanical exhaust required.
<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"><li>Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.</li><li>Hand: Protective gloves.</li></ul>

	<ul style="list-style-type: none"> <li>• Eye: Chemical safety goggles.</li> </ul>
<b>General Hygiene Measures</b>	Wash thoroughly after handling.

## Section 9 – Physical and Chemical Properties

<b>Odour</b>	Odourless.
<b>Melting Point</b>	No data available.
<b>Boiling Temperature (°C)</b>	No data available.
<b>Density</b>	No data available.
<b>Vapour Pressure</b>	No data available.
<b>Solubility in Water</b>	No data available.
<b>Flash Point</b>	No data available.
<b>Explosion Limits</b>	No data available.
<b>Ignition Temperature</b>	No data available.

## Section 10 – Stability and Reactivity

<b>Stability</b>	<ul style="list-style-type: none"> <li>• Stable under recommended storage conditions.</li> <li>• Materials to Avoid: No dangerous reaction known under normal conditions.</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>• None under normal conditions.</li> </ul>
<b>Hazardous Polymerization</b>	<ul style="list-style-type: none"> <li>• Will not occur.</li> </ul>

## Section 11 – Toxicological Information

<b>Route of Exposure</b>	<ul style="list-style-type: none"> <li>• Skin Contact: May cause skin irritation.</li> <li>• Skin Absorption: May be harmful if absorbed through the skin.</li> <li>• Eye Contact: May cause eye irritation.</li> <li>• Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.</li> <li>• Ingestion: May be harmful if swallowed.</li> </ul>
<b>Signs and Symptoms of Exposure</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12 – Ecological Information

N/A

## Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

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DOT	<ul style="list-style-type: none"><li>This substance is considered to be non-hazardous for transport.</li></ul>
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