Material Safety Datasheet (MSDS)

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Version 2.2
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Applied Biological Materials Inc.
1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure RNA Miniprep Kit
Catalog # From Manufacturer	D518
Original Manufacturer	Applied Biological Materials
Address	1-3671 Viking Way, Richmond, BC, CANADA V6V 2J5
Technical Phone	604-247-2414

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

Section 2 – Composition/Information on Ingredient

Substance Name	Lysis Buffer and Wash Buffer 1
Chemical Name	Guanidine thiocyanate
Weight-%	10 - 47%
CAS Number	593-84-0

Section 3 – Hazards Identification

HMIS Classification	• Health hazards: 2 • Flammability: 0 • Physical hazards: 0 • **Corrosive**: H314 Causes severe skin burns and eye damage. • **Harmful**: H302 Harmful if swallowed. H412 Harmful to aquatic life with long lasting effects. • Precautionary Statements Prevention: P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
NFPA Rating	• Health hazards: 2 • Flammability: 0 • Instability: 0

Section 4 – First Aid Measures

Eye Contact	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.
Skin Contact	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.
Inhalation	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician
Ingestion	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	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

Personal Precautions	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Unsuitable cleaning agents sodium hypochlorite.

Section 7 – Handling and Storage

Handling	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.
Storage	Keep container tightly closed in a dry and well-ventilated.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	• 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). • 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.
General Hygiene Measures	Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

Odour	No data available.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.

Solubility in Water	No data available.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	Stable under recommended storage conditions.
Hazardous Decomposition Products	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.

Section 11 – Toxicological Information

Route of Exposure	• Skin Contact: Acute toxicity estimate: 2,926 mg/kg Method: Calculation method. • Inhalation: Acute toxicity estimate: 29.26 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method. • Ingestion: Acute toxicity estimate: 1,578 mg/kg Method: Calculation method.
Signs and Symptoms of Exposure	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. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.

Section 14 – Transportation Information

Not regulated as a dangerous good.

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: Contact supplier for inventory compliance status.
- NDSL: Contact supplier for inventory compliance status.

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.