



ZYMO RESEARCH
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Material Safety Data Sheet

Product Contents:

ZR Viral RNA Kit™ (R1034, R1035)
ZR Viral RNA Buffer
RNA Wash Buffer
DNase/RNase-Free Water
Zymo-Spin™ IC Columns
Collection Tubes
DNase/RNase-Free Tubes



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To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

Section 1 – Product and Company Information

Reagent/Buffer Name: ZR Viral RNA Buffer (Component B)
Catalog Number: R1034-1-50, R1034-1-100

Company: Zymo Research Corp.
Street Address: 17062 Murphy Ave.
City, State, Zip Code, Country: Irvine, CA 92614 US
Phone: 949-679-1190
Fax: 949-266-9452

Section 2 – Ingredient Information/Composition

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components Name	CAS #	EINEC No.	Formula	Concentration
Sodium Iodide, Anhydrous	7681-82-5	231-679-3	NaI	≤ 4M

Section 3 – Hazard Identification

Emergency Overview: Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of ingestion, of inhalation.

Target Organs: The substance may be toxic to blood, thyroid.

NFPA Ratings (scale 0 - 4) :
Health = 2
Fire = 0
Reactivity = 0

HMIS Ratings (scale 0 – 4) :
Health = 2
Fire = 0
Reactivity = 0

Section 4 – First Aid Measures

In Case of

Eye Contact: Flush contaminated eye(s) with large volumes of water for at least 15 minutes. Get medical attention.

Skin Contact:	Rinse contaminated areas with large volumes water for at least 15 minutes as contaminated clothing is removed. Get medical attention if area remains irritated. Get medical aid if irritation develops or persists. Do not wear contaminated clothing until after it has been properly cleaned.
Ingestion:	Do NOT induce vomiting. Keep victim warm and calm. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Inhalation:	Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration. Get medical aid if cough or other symptoms appear.

Section 5 – Fire Fighting Measures

Extinguishing Media:	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and protective garments. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Perchloric acid ignites with sodium iodide. When heated to decomposition it emits toxic fumes of iodine and sodium oxide.

Section 6 – Accidental Release Measures

General Information:	Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent), safety goggles, rubber boots, and heavy rubber gloves.
Spills / Leaks:	Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere. Do not get water inside containers.

Section 7 – Handling and Storage

Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store protected from light. Handle under an inert atmosphere. Store protected from air. Keep from contact with moist air and steam.
Storage:	Store tightly closed at Room Temperature and protect from sunlight. Do not store in direct sunlight. Store in a tightly closed container. Do not expose to air. Store under an inert atmosphere.

Section 8 – Exposure Controls / Personal Protection

Wear appropriate NIOSH / MSHA-Approved respirator, chemical resistant gloves, chemical safety goggles. Safety shower and eye both. Mechanical exhaust required. Keep tightly closed. Wash thoroughly after handling. Do not get in contact with eyes, skin or on clothing. Do not inhale vapor. Severe eye irritant.

Section 9 – Physical and Chemical Properties

Physical States / Form:	Liquid
Color:	Colorless
Freezing/Melting Point:	661°C
Vapor Density:	N/A
Evaporation Rate:	N/A
Viscosity:	N/A
Boiling Point:	1300°C at 760.00mm Hg

Solubility:	Easily soluble in cold water, hot water. Soluble in acetone.
Decomposition Temperature:	N/A
Specific/Gravity/Density:	3.6670 g/cm ³
Molecular Weight:	149.89

Section 10 – Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions To Avoid:	Incompatible materials, light, moisture, exposure to air, contact with water, strong oxidants.
Substances To Be Avoided:	Strong oxidizing agents, acids.
Hazardous, Combustion, Or Decomposition Products:	Irritating and toxic fumes and gases, hydrogen iodide, sodium oxide, iodine.
Hazardous Polymerization:	Has not been reported.

Section 11 – Toxicological Information

CAS No. :	7681-82-5
RTECS No. :	WB6475000
Toxicity Data:	Oral Mouse LD50: 1,000 mg/kg Oral Rat LD50: 4,340 mg/kg Intravenous Rat LD50: 1,060 mg/kg
Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology:	No information available.
Teratogenicity:	See RTECS for actual entry.
Reproductive Effects:	See RTECS for actual entry.
Neurotoxicity:	No information available.
Mutagenicity:	No information available.
Other Studies:	No data available.
Additional Information:	The product should be handled with the normal caution accorded to chemical handling. Additional harmful properties cannot be ruled out.

Section 12 – Ecological Information

Ecotoxicity:	Not available
Environmental Fate:	This chemical is expected to cause little oxygen depletion in aquatic systems. This chemical is not likely to bioconcentrate. Long term degradation products may arise. The product itself and its products of degradation are not toxic.
Physical/Chemical:	Not available

Section 13 – Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 – Transport Considerations

US DOT:	Not a DOT controlled material.
IMO:	Not regulated as a hazardous material.
IATA:	Not regulated as a hazardous material.
RID/ADR:	Not regulated as a hazardous material.
Canadian TDG:	No information available.

Section 15 – Regulatory Information

TSCA:	CAS No.: 7681-82-5	Listed on the TSCA inventory.
OSHA:		Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
California No Significant Risk Level:		None of the chemicals in this product are listed.
European/International Regulations		
Hazard Symbols:		Not available
DSCL (EEC):		R36/38- Irritating to eyes and skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves.
WGK (Water Danger / Protection):		CAS No.: 7681-82-5: 1
Other Regulations		Canada: Listed on Canada's DSL List. This product has a WHMIS Classification of D2A. Listed on Canada's Ingredient Disclosure List. China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.

Section 16 – Other Information

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Section 1 – Product and Company Information

Reagent/Buffer Name: ZR Viral RNA Buffer (Component C)
Catalog Number: R1034-1-50, R1034-1-100

Company: Zymo Research Corp.
Street Address: 17062 Murphy Ave.
City, State, Zip Code, Country: Irvine, CA 92614 US
Phone: 949-679-1190
Fax: 949-266-9452

Section 2 – Ingredient Information/Composition

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components Name	CAS #	EINEC No.	Formula	Concentration
Guanidine Thiocyanate	593-84-0	209-812-1	CH ₅ N ₃ CHNS	≤ 6M

Section 3 – Hazard Identification

Harmful by inhalation and ingestion. Irritating to skin and eyes. Light sensitive. May cause central nervous system effects. May cause respiratory and digestive tract irritation. May cause severe eye and skin irritation with possible burns. Target organ(s): Central nervous system. Labeling: Xn, harmful, R 20/21/22-32.

Section 4 – First Aid Measures

In Case of

Eye Contact: Flush contaminated eye(s) with large volumes of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash contaminated areas with large volumes of soap and water for at least 15 minutes as contaminated clothing is removed. Get medical attention if area remains irritated. Do not wear contaminated clothing until after it has been properly cleaned.

Ingestion: Keep victim warm and calm. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get immediate medical attention.

Inhalation: Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop-give artificial respiration. Get medical aid if cough or other symptoms appear.

Notes To Physician: Treat symptomatically and supportively.

Antidote: No specific antidote exists.

Section 5 – Fire Fighting Measures

Extinguishing Media: Water spray. Carbon dioxide, dried chemical powder, carbon dioxide or appropriate foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and protective garments. If possible, have this product removed from the fire scene.

Section 6 – Accidental Release Measures

General Information: Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent), chemical safety goggles, rubber boots, and heavy rubber gloves.

Spills / Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

Section 7 – Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store tightly closed at Room Temperature.

Section 8 – Exposure Controls / Personal Protection

Wear appropriate NIOSH / MSHA-Approved respirator, chemical resistant gloves, chemical safety goggles. Safety shower and eye both. Mechanical exhaust required. Keep tightly closed. Wash thoroughly after handling. Do not get in contact with eyes, skin or on clothing. Do not inhale vapor. Severe eye irritant.

Section 9 – Physical and Chemical Properties

Physical States / Form: Liquid

Color: Colorless

Odor: None

Melting Point: 243°F

Flashpoint: > 67°C

Vapor Pressure: Negligible

Solubility In Water: Soluble in water

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions To Avoid: High temperatures, incompatible materials, light.

Substances To Be Avoided: Thiocyanate compounds are incompatible with chlorates, nitrates, nitric acid, organic peroxides, oxidizing agent, peroxides, potassium chlorate, and sodium chlorate.

Hazardous, Combustion, Or Decomposition Products: Carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 – Toxicological Information

Acute Effects	
Inhalation:	May be harmful by inhalation. Material is destructive to mucous membranes and upper respiratory tract.
Eye Contact:	May cause severe eye irritation.
Skin Contact:	May cause severe skin irritation with possible burns.
Ingestion:	Harmful if swallowed.
Target Organs:	Central nervous system.
Prolonged Exposure:	N/A
Chronic Effects:	N/A
RTECS Number:	XL1225000
Toxicity Data:	N/A
Additional Information:	The product should be handled with the normal caution accorded to chemical handling. Additional harmful properties cannot be ruled out.

Section 12 – Ecological Information

No information available

Section 13 – Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: Not Listed.
RCRA D-Series Chronic Toxicity Reference Levels: Not Listed.
RCRA F-Series: Not Listed.
RCRA P-Series: Not Listed.
RCRA U-Series: Not Listed.
Not listed as a material banned from land disposal according to RCRA.

Section 14 – Transport Considerations

US DOT: Not a DOT controlled material (United States).
IATA: Non-hazardous for air transport.

Section 15 – Regulatory Information

TSCA: CAS No.: Listed on the TSCA inventory.
Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.
Section 12b: None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
SARA: Section 302 (RQ): None of the chemicals in this material have an RQ.
Section 302 (TPQ): None of the chemicals in this product have a TPQ.
SARA Codes: Acute.
Clean Air Act: This material does not contain any hazardous air pollutants, Class 1 Ozone depleters, or Class 2 Ozone depleters.

Clean Water Act:	None of the chemicals in this product are listed as hazardous substances under the CWA, Priority Pollutants under the CWA, or Toxic Pollutants under the CWA.
OSHA:	None of the chemicals in this product are considered highly hazardous by OSHA.
STATE:	Not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level:	None of the chemicals in this product are listed.
European Labeling	
Hazard Symbols:	Xn
Risk Phrases:	R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 32 Contact with acids liberates very toxic gas.
Safety Phrases:	S 22 Do not inhale. S 24-25 Avoid contact with skin and eyes. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
WGK (Water Danger / Protection):	CAS No.: 593-84-0
Canada:	Listed on Canada's DSL List. This product has a WHMIS Classification of D1B, D2B. Not listed on Canada's Ingredient Disclosure List.

Section 16 – Other Information

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Section 1 – Product and Company Information

Reagent/Buffer Name: RNA Wash Buffer
Catalog Number: R1003-3-6, R1003-3-12, R1003-3-24, R1003-3-48

Company: Zymo Research Corp.
Street Address: 17062 Murphy Ave.
City, State, Zip Code, Country: Irvine, CA 92614 US
Phone: 949-679-1190
Fax: 949-266-9452

Section 2 – Ingredient Information/Composition

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components Name	CAS #	EINEC No.	Formula	Percent
Tris(hydroxymethyl)aminomethane / Hydrochloric Acid	1185-53-1	214-684-5	C ₄ H ₁₁ NO ₃ .HCL	≤ 1%
Ethylenediaminetetraacetic Acid, pH 8.0	6381-92-6	205-358-3	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	≤ 1%

According to the OSHR 29 CFR§1910_1200, a mixture that contains less than one percent by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider this product to be hazardous; however we recommend the use of gloves, lab coats and eye protection when working with these or any chemical reagents.

Section 3 – Hazard Identification

NFPA Ratings (scale 0 - 4) :
Health = 0
Fire = 0
Reactivity = 0

HMIS Ratings (scale 0 – 4) :
Health = 0
Fire = 0
Reactivity = 0

OSHA Hazard: No known OSHA hazards

Potential Acute Health Effects:
Eyes: May cause eye irritation.
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.

Section 4 – First Aid Measures

In Case of	
Eye Contact:	Flush contaminated eye(s) with large volumes of water for at least 15 minutes. Get medical attention if eye(s) remain irritated.
Skin Contact:	Wash contaminated areas with large volumes of soap and water.
Ingestion:	Wash out mouth with water provided person is conscious.
Inhalation:	Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration.

Section 5 – Fire Fighting Measures

Extinguishing Media:	Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective garments to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

General Information:	Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and heavy rubber gloves. Avoid breathing vapors, mist or gas.
Spills / Leaks:	Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Storage:	Store tightly closed in a dry and well-ventilated place.
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Section 8 – Exposure Controls / Personal Protection

Whenever workplace conditions warrant a respirator use, wear tested and approved NIOSH (US) or CEN (EU) respirators and components. Wear protective gloves and safety goggles. Provide safety shower and eyewash station. Keep tightly closed. Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Physical States / Form:	Liquid
Color:	Colorless
pH-Factor:	(20°C) 8.0
Specific Gravity:	(20°C) 0.990 g/cm ²
Solubility In Water:	(20°C) Soluble

Section 10 – Stability and Reactivity

Substances To Be Avoided:	Strong oxidizing agents.
Hazardous, Combustion, Or Decomposition Products:	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.

Section 11 – Toxicological Information

Acute Effects	
Inhalation:	May be harmful by inhalation. May cause respiratory tract irritation.
Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation. May cause skin irritation.
Ingestion:	May be harmful if swallowed.
Signs and Symptoms of Exposure:	Caution! The toxicological properties of this mixture have not been fully investigated. Follow good laboratory practices when handling.
RTECS Number:	Mixture not listed.
Additional Information:	The product should be handled with the normal caution accorded to chemical handling. Additional harmful properties cannot be ruled out.

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

Observe all federal, state, and local environmental regulations.

Section 14 – Transport Considerations

DOT Regulations:	Not dangerous goods. Not regulated.
IMDG:	Not dangerous goods. Not regulated.
IATA:	Not dangerous goods. Not regulated.

Section 15 – Regulatory Information

SARA:	
Section 302	No products were found.
Section 313	No products were found.
SARA 311/312 Hazards	No SARA Hazards.
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.
OSHA Hazards:	No known OSHA hazards.
DSL Status:	All components of this product are on the Canadian DSL list.

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Section 1 – Product and Company Information

Reagent/Buffer Name: DNase/RNase Free Water
Catalog Number: W1001-1, W1001-4, W1001-6, W1001-10

Company: Zymo Research Corp.
Street Address: 17062 Murphy Ave.
City, State, Zip Code, Country: Irvine, CA 92614 US
Phone: 949-679-1190
Fax: 949-266-9452

Section 2 – Ingredient Information/Composition

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components Name	CAS #	Formula	Concentration
N/A	N/A	N/A	N/A

According to the OSHR 29 CFR§1910_1200, a mixture that contains less than one percent by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider this product to be hazardous; however we recommend the use of gloves, lab coats and eye protection when working with these or any chemical reagents.

Section 3 – Hazard Identification

Not applicable.

Section 4 – First Aid Measures

In Case of
Eye Contact: Not applicable.
Skin Contact: Not applicable.
Ingestion: Not applicable.
Inhalation: Not applicable.

Section 5 – Fire Fighting Measures

Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	No special measures required.

Section 6 – Accidental Release Measures

Non-hazardous material. Clean up of spills requires no special equipment or procedures.

Section 7 – Handling and Storage

Handling:	No special requirements.
Storage:	No special requirements.

Section 8 – Exposure Controls / Personal Protection

No special precautions required.

Section 9 – Physical and Chemical Properties

Physical States / Form:	Liquid
Color:	Colorless
Boiling Point:	100°C (212°F)
Melting Point:	0°C (32°F)
Solubility In Water:	Soluble

Section 10 – Stability and Reactivity

Stability:	Stable
Substances To Be Avoided:	None
Hazardous, Combustion, Or Decomposition Products:	None

Section 11 – Toxicological Information

Acute Effects	
Inhalation:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Ingestion:	N/A
Prolonged Exposure:	N/A
Chronic Effects:	N/A

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

If material becomes contaminated during use, dispose of accordingly. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Considerations

No information available.

Section 15 – Regulatory Information

No information available.

Section 16 – Other Information

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