# KIT SAFETY DATA SHEET



Kit Product Name Kallestad DNA/ENA Microplate EIA Wash Buffer

Kit Catalog Number(s) 31044

Revision date 20-Mar-2024

Kit	Contents
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Catalog Number(s)	Product Name
R3/FAID120	Wash Buffer Concentrate (16X)

KITA / EN Page 1/9

# SAFETY DATA SHEET



Revision date 22-Oct-2021 Revision Number 1

1. Identification

**Product identifier** 

Product Name Wash Buffer Concentrate (16X)

Other means of identification

Catalog Number(s) R3/FAID120

Recommended use of the chemical and restrictions on use

Recommended use In-vitro laboratory reagent or component

Details of the supplier of the safety data sheet

<u>Corporate Headquarters</u> <u>Manufacturer Address</u>

Bio-Rad Laboratories Inc.

Bio-Rad Laboratories, Diagnostic Group
4000 Alfred Nobel Drive

Hercules, CA 94547

Bio-Rad Laboratories, Diagnostic Group
4000 Alfred Nobel Drive

Hercules, California 94547

USA

**Technical Service** 1-800-224-6723

TechSupport.USSD@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA: 1 (800) 424-9300

Legal Entity / Contact Address

Bio-Rad Laboratories Clinical Diagnostics 4000 Alfred Nobel Drive Hercules, California 94547

USA

2. Hazard(s) identification

Classification

USA

Serious eye damage/eye irritation Category 2A

Hazards not otherwise classified (HNOC)

Not applicable

**Label elements** 

Warning

Hazard statements

Causes serious eye irritation



AGHS / EN Page 2/9

Appearance aqueous solution Physical state Liquid Odor Odorless

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid release to the environment

# Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Other information

Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Poly(oxy-1,2-ethanediyl),	9002-93-1	1 - 2.5	*
.alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omega.			
-hydroxy-			
Sodium azide	26628-22-8	0.3 - 0.99	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

#### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may

cause redness and irritation.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to

product and label instructions.

# 8. Exposure controls/personal protection

Control parameters

**Exposure Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium azide	Ceiling: 0.29 mg/m <sup>3</sup> Sodium	(vacated) S*	Ceiling: 0.1 ppm HN3
26628-22-8	azide	(vacated) Ceiling: 0.1 ppm HN3	Ceiling: 0.3 mg/m <sup>3</sup> NaN3
	Ceiling: 0.11 ppm Hydrazoic	(vacated) Ceiling: 0.3 mg/m <sup>3</sup>	
	acid vapor	NaN3	

### Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** aqueous solution

Color colorless Odor Odorless

**Odor threshold** No information available

Property Values Remarks • Method

Melting point / freezing point None known No data available

7.4

Initial boiling point and boiling range> 100 °C / 212 °F

No data available None known Flash point **Evaporation rate** No data available None known No data available None known **Flammability** Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Hq

Vapor pressure No data available None known Relative vapor density No data available None known No data available Relative density None known

Miscible in water Water solubility

Solubility(ies) No data available None known None known **Partition coefficient** No data available No data available **Autoignition temperature** None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known No data available **Dynamic viscosity** None known

Other information

**Explosive properties** No information available Oxidizing properties No information available ...... - ..... - ..... - ..... - .....

Softening point
Molecular weight
VOC content
Liquid Density
Bulk density
No information available
No information available
No information available
No information available

# 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions Avoid contact with metals. This product contains sodium azide. Sodium azide can react with

copper, brass, lead, and solder in piping systems to form explosive compounds and toxic

gases.

Conditions to avoid None known based on information supplied.

Incompatible materials Metals.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation. Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

**Acute toxicity** 

**Numerical measures of toxicity** 

**Component Information** 

omponent information					
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Poly(oxy-1,2-ethanediyl),	= 1800 mg/kg (Rat)	-	-		
.alpha[4-(1,1,3,3-tetramethylbu					
tyl)phenyl]omegahydroxy-					
9002-93-1					
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h		
26628-22-8					

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life with long lasting effects.

Chemical na	ame	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
Sodium az	de	-	LC50: =0.8mg/L (96h,	-	-
26628-22	-8		Oncorhynchus mykiss)		
			LC50: =0.7mg/L (96h,		
			Lepomis macrochirus)		
			LC50: =5.46mg/L (96h,		
			Pimephales promelas)		

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

Revision date 22-Oct-2021

Contaminated packaging Do not reuse empty containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as

a hazardous waste.

# 14. Transport information

DOT Not regulated TDG Not regulated MEX Not regulated Not regulated

Not regulated **IMDG** 

# 15. Regulatory information

International Inventories Contact supplier for inventory compliance status

# **US Federal Regulations**

#### **SARA 313**

IATA

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Sodium azide - 26628-22-8	1.0	

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium azide 26628-22-8	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

### **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			

#### Wash Buffer Concentrate (16X)

Revision date 22-Oct-2021

Sodium az	ide	X	X	X
26628-22	-8			

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Special hazards - Halls Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 22-Oct-2021

**Revision Note** Reformatted and updated existing information.

**Disclaimer** 

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**End of Safety Data Sheet**