# SAFETY DATA SHEET

Revision date 29-Jun-2022



Revision Number 2

1. Identification				
Product identifier				
Product Name	ANTIBODY PREPARATION			
Other means of identification				
Safety data sheet number	10040			
Recommended use of the chemical	and restrictions on use			
Recommended use	For research use only			
Details of the supplier of the safety		Land Entity / Contact Address		
<u>Corporate Headquarters</u> Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	Manufacturer Address Bio-Rad Endeavour House Langford Business Park Kidlington Oxford OX5 1GE United Kingdom e-mail: antibody_safetydatasheets@bio-rad.com	Legal Entity / Contact Address Bio-Rad Laboratories Life Science 2000 Alfred Nobel Drive Hercules, California 94547		
Technical Service	1-800-424-6723 support@bio-rad.com			
Emergency telephone number	supporte bio-rau.com			
24 Hour Emergency Phone Number	CHEMTREC USA: 1 (800) 424-9300			

# 2. Hazard(s) identification

# **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

<u>Hazard statements</u> This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)						
The product contains no substances which at their given concentration, are considered to be hazardous to health.						
Appearance	Clear to semi-clear	Physical state	Liquid	Odor	No information available	

#### Other information

No information available.

# 3. Composition/information on ingredients

### Substance

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Sodium azide	26628-22-8	0.1 - 0.299	*

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

# 4. First-aid measures

# Description of first aid measures

Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water.		
Ingestion	Rinse mouth.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	No information available.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Suitable Extinguishing Media Specific hazards arising from the chemical	Use extinguishing measures that are appropriate to local circumstances and the		
Specific hazards arising from the	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No information available.		
Specific hazards arising from the chemical Explosion data	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No information available.		

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick 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.

### Conditions for safe storage, including any incompatibilities

Storage Conditions

Store according to product and label instructions.

# 8. Exposure controls/personal protection

#### Control parameters

#### Exposure Limits

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, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Information on basic physical and o	chemical properties	
Physical state	Liquid	
Appearance	Clear to semi-clear	
Color	Varies	
Odor	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH		None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	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

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical, chemical and toxicological characteristics	
Symptoms	No information available.

Acute toxicity

Numerical measures of toxicity

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	No information available
Inhalation LC50	No information available
Component Information	

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ſ	Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat)4 h
	26628-22-8			

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
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.

# **ANTIBODY PREPARATION**

# Interactive effects

No information available.

# 12. Ecological information

# Ecotoxicity

			<b>—</b> • • •		
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea	
			microorganisms		
Sodium azide	-	LC50: =0.7mg/L (96h,	-	-	
26628-22-8		Lepomis macrochirus)			
		LC50: =0.8mg/L (96h,			
	Oncorhynchus mykiss)				
	LC50: =5.46mg/L (96h,				
		Pimephales promelas)			
Persistence and degradab	oility No informati	on available.			
Bioaccumulation	Bioaccumulation There is no data for this product.				
Other adverse effects	Other adverse effects No information available.				
Other adverse effects	no mormat	on available.			
	13.	Disposal considerat	tions		
Wests the stresht mother de					
Waste treatment methods					
Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with					
products environmental legislation. Flush pipes with water frequently if discarding solutions					
	containing sodium azide into metal piping systems.				
Contaminated packaging	Do not reuse empty containers.				
US EPA Waste Number	P105	P105			
California Hazardous Was	alifornia Hazardous Waste Status This product contains one or more substances that are listed with the State of California as			the State of California as	
a hazardous waste olatus a hazardous waste.					
14. Transport information					

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
<u>IATA</u>	Not regulated
IMDG	Not regulated

# 15. Regulatory information

International Inventories

Contact supplier for inventory compliance status

### US Federal Regulations

### SARA 313

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 contains the following substances which are regulated 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 7732-18-5	-	-	Х
Sodium phosphate dibasic 7558-79-4	Х	Х	Х
Sodium azide 26628-22-8	Х	Х	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
	nd to abbreviations and acronyms u ction 8: EXPOSURE CONTROLS/PE TWA (time-weighted average) Maximum limit value		DN	m Exposure Limit)

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

# ANTIBODY PREPARATION

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** 29-Jun-2022 Significant changes throughout SDS. Review all sections. **Revision Note** 

Revision Not Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet