



# Release Buffer (Antigen)

## Safety Data Sheet

according to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations  
Issue date: 5/21/2021 Revision date: 5/21/2021 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Release Buffer (Antigen)

#### 1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals  
Restrictions on use : None known

#### 1.3. Supplier

QORVO BIOTECHNOLOGIES  
14505 21st Ave N STE 212  
Plymouth, MN 55447  
T 1-833-384-1522

#### 1.4. Emergency telephone number

Emergency number : 1-833-384-1522

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable.

#### 2.3. Other hazards which do not result in classification

No additional information available.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable.

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Ethylenediaminetetraacetic acid	CAS-No.: 60-00-4	2	Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16.

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Not determined.

#### 5.2. Specific hazards arising from the chemical

No additional information available.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not handle until all safety precautions have been read and understood.
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##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Release Buffer (Antigen)

No additional information available.

#### 1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)- (7365-45-9)

No additional information available.

#### Sodium chloride (7647-14-5)

No additional information available.

#### Ethylenediaminetetraacetic acid (60-00-4)

No additional information available.

#### 6,9-Dioxa-3,12-diazatetradecanedioic acid, 3,12-bis(carboxymethyl)- (67-42-5)

No additional information available.

#### Sucrose (57-50-1)

#### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	10 mg/m <sup>3</sup>
ACGIH chemical category	Not Classifiable as a Human Carcinogen

#### USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Liquid.
Color	: Colorless.
Odor	: Odorless.
Odor threshold	: No data available.
pH	: 7.3
Melting point	: Not applicable.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Relative evaporation rate (butyl acetate=1)	: No data available.
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available.
Relative vapor density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: No data available.
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosion limits	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

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### 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

#### Ethylenediaminetetraacetic acid (60-00-4)

LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified. pH: 7.3
Serious eye damage/irritation	: Not classified. pH: 7.3
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Viscosity, kinematic	: No data available.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### Ethylenediaminetetraacetic acid (60-00-4)

LC50 - Fish [1]	34 – 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	113 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
LC50 - Fish [2]	44.2 – 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

No additional information available.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

No additional information available.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with Department of Transport/IMDG/IATA.

#### 14.1. UN number

Not considered a dangerous good for transport regulations.

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable.  
 Proper Shipping Name (TDG) : Not applicable.  
 Proper Shipping Name (IMDG) : Not applicable.  
 Proper Shipping Name (IATA) : Not applicable.

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable.



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### IMDG

Transport hazard class(es) (IMDG) : Not applicable.

### IATA

Transport hazard class(es) (IATA) : Not applicable.

#### 14.4. Packing group

Packing group (DOT) : Not applicable.  
Packing group (IMDG) : Not applicable.  
Packing group (IATA) : Not applicable.

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

### DOT

No data available.

### IMDG

No data available.

### IATA

No data available.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Release Buffer (Antigen)

SARA Section 311/312 Hazard Classes	None
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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Ethylenediaminetetraacetic acid (60-00-4)

CERCLA RQ	5000 lb
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### 15.2. International regulations

No additional information available.



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### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

Component	State or local regulations
Ethylenediaminetetraacetic acid(60-00-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

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Full text of H-phrases	
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), USA

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