

7040 Virginia Manor Road Beltsville, MD 20705, USA Web: www.abpbio.com Email: info@abpbio.com

**Material Safety Data Sheet** 

# Section 1. Identification of the Substance/Mixture

**Product name:** Binding Buffer

Manufacturer/Supplier identification

**ABP Biosciences** 

7040 Virginia Manor Road, Beltsville, MD 20705, USA

Web: www.abpbio.com Tel: 301-658-7993 Email: info@abpbio.com

For research use only. Not for use in diagnosis procedures

# Section 2. Hazards Identification

**GHS Classification** 

Signal Word: Warning



#### Hazard pictograms:

#### Health hazards:

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2

Physical hazards: Not classified

**Environmental hazards:** Not classified

**Hazard Statements:** H319 Causes serious eye irritation.

H302 Harmful if swallowed. H315 Causes skin irritation.

**Precautionary Statements** 

**Prevention:** P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye

protection/face protection

**Response:** P301 + P310 - IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. P330 - Rinse mouth.

P362 + P364 - Take off all contaminated clothing and wash it

before reuse.

Storage: Not Applicable.

**Disposal:** P501 - Dispose of contents/container to an approved waste

disposal plant.

Other hazards: Not Applicable.

**HMIS** 

Health	1
Flammability	0
Reactivity	0

# Section 3. Composition/Information on Ingredients

Substance name: Binding Buffer

Chemical Name	CAS No.	Weight-%
Guanidine hydrochloride	50-01-1	30-60

We recommend handling all chemicals with caution.

# Section 4. First Aid Measures

#### Description of first aid measures

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes.

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is

required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Immediate medical attention is required.

**Ingestion** Never give anything by mouth to an unconscious person. Do not

induce vomiting without medical advice. Get medical attention if

symptoms occur.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If

symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

#### Most important symptoms and effects, both acute and delayed

H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

# Section 5. Fire-Fighting Measures

## **Extinguishing media**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable extinguishing media** No information available.

#### Special hazards arising from the substance or mixture

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# Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

### Section 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Always wear recommended Personal Protective Equipment Use personal protection equipment See section 8 for more information

## **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### Reference to other sections

See section 8 for more information.

# Section 7. Handling and Storage

#### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

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

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For research use only.

# Section 8. Exposure Controls/Personal Protection

#### **Control parameters**

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

## Hazardous components without workplace control parameters

Ingredients	CAS No.
Guanidine hydrochloride	50-01-1

### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

# **Exposure controls**

#### **Personal Protective Equipment**

Respiratory protection In case of insufficient ventilation wear respirators and

components tested and approved under appropriate government

standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-

resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety

practice

## **Environmental exposure controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

# Section 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

**Appearance** liquid Odor No data **Odor Threshold** No data Melting point / melting range °C No data **Boiling point / boiling range** °C No data Flash point °C No data **Autoignition Temperature** °C No data **Decomposition temperature** °C No data **Evaporation rate** No data Flammability (solid, gas) No data Upper explosion limit No data Lower explosion limit No data **Vapor Pressure** No data Vapor density No data Relative density No data **Specific gravity** No data Solubility No data

Partition coefficient:

n-octanol/waterNo dataViscosityNo dataExplosive propertiesNo dataOxidizing propertiesNo dataOther informationNo data

## Section 10. Stability and Reactivity

**Reactivity** No decomposition if stored and applied as directed.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous** Hazardous reaction has not been reported.



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Conditions to avoid No information available.

Incompatible materials No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available

# Section 11. Toxicological information

## Information on toxicological effects

Chemical Name	ID50 (oral, rat/mouse)	ID50 (dermal, rat/rabbit)	ID50 (inhalation, rat/mouse)
Guanidine hydrochloride	475mg/kg	>2000 mg/kg	No data available

### **Principal Routes of Exposure**

**Irritation** Serious Eye Damage / Eye Irritation

Corrosivity Data are conclusive but insufficient for classification Sensitization Data are conclusive but insufficient for classification Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT)-single exposure

Specific target organ toxicity Data are conclusive but insufficient for classification

(STOT)-repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification Germ cell mutagenicity Data are conclusive but insufficient for classification Data are conclusive but insufficient for classification Reproductive toxicity **Aspiration hazard** Data are conclusive but insufficient for classification

# Section 12. Ecological Information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

No information available. Bioaccumulative potential

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

# Section 13. Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in

according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not empty into drains. Do not dispose of waste into sewer.

# **Section 14. Transport Information**

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not Applicable
UN proper shipping name Not Applicable
Transport hazard class(es) Not Applicable
Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

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

Not Applicable.

# Section 15. Regulatory Information

## **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

D2B - Toxic materials

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## Section 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.



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**End of Material Safety Data Sheet**