

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

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Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture

Product name: Buffer AL

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: Danger



Hazard pictograms:

Health hazards:

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 1C
Serious eye damage/irritation	Category 1
Chronic aquatic toxicity	Category 3

Physical hazards: Not classified **Environmental hazards:** Not classified

Hazard Statements: H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage.

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

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with Response:

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/ physician.

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

disposal plant.

Other hazards: Contains a known or suspected endocrine disruptor.

HMIS

Health	2
Flammability	0
Reactivity	0

Section 3. Composition/Information on Ingredients

Substance/Mixture: Mixture
Substance name: Buffer AL

Chemical Name	CAS No.	Weight-%
Guanidinium thiocyanate	593-84-1	20-50

We recommend handling all chemicals with caution.

Section 4. First Aid Measures

Description of first aid measures

Skin contact Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from

corrosion of the skin heal slowly and with difficulty.

Eye contact Small amounts splashed into eyes can cause irreversible tissue

damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses. Protect unharmed eve.

Ingestion Not expected to present a significant ingestion hazard under

anticipated conditions of normal use. If you feel unwell, seek

medical advice.

Inhalation If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Causes serious eye damage. Causes severe burns.

Indication of any immediate medical attention and special treatment needed

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media No information available.

Special hazards arising from the substance or mixture

Not known

Protective equipment and precautions for firefighters

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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

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

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

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.
Guanidinium thiocyanate	593-84-1

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 chemicalresistant 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/water No data
Viscosity No data
Explosive properties No data
Oxidizing properties No data
Other information No data

Section 10. Stability and Reactivity

Reactivity No decomposition if stored and applied as directed.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.



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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)
Guanidinium thiocyanate	593 mg/kg	No data available	No data available

Principal Routes of Exposure

Harmful if swallowed. **Acute toxicity**

Skin corrosion/irritation Skin irritation Serious eye damage/irritation Irritating to eyes

Respiratory or skin

sensitization

Data are conclusive but insufficient for classification

(STOT)-singleexposure

Specific target organ toxicity Data are conclusive but insufficient for classification

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

Hazardous to the Aquatic Environment.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects Contains a known or suspected endocrine disruptor.

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