



7040 Virginia Manor Road  
Beltsville, MD 20705, USA  
Web: [www.abpbio.com](http://www.abpbio.com)  
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## Material Safety Data Sheet

### Section 1. Identification of the Substance/Mixture

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**Product name:** iClick EdU buffer additive

#### Manufacturer/Supplier identification

ABP Biosciences  
7040 Virginia Manor Road, Beltsville, MD 20705, USA  
Web: [www.abpbio.com](http://www.abpbio.com)  
Tel: 301-658-7993  
Email: [info@abpbio.com](mailto:info@abpbio.com)

**For research use only. Not for use in diagnosis procedures**

### Section 2. Hazards Identification

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#### GHS Classification

**Signal Word:** not hazardous

**Health hazards:** not hazardous

**Physical hazards:** not hazardous

#### Principle Routes of Exposure/ Potential Health effects

**Eyes:** May cause eye irritation with susceptible persons.  
**Skin:** May cause skin irritation in susceptible persons.  
**Inhalation:** May be harmful by inhalation.  
**Ingestion:** May be harmful if swallowed.

#### Specific effects

**Carcinogenic effects:** not applicable.  
**Mutagenic effects:** not applicable.  
**Reproductive toxicity:** not applicable.  
**Sensitization:** not applicable.  
**Target Organ Effects:** No known effects under normal use conditions.

#### HMIS

Health	0
Flammability	0
Reactivity	0

### Section 3. Composition/Information on Ingredients

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Chemical Name	CAS No.	Weight-%
Sodium ascorbate	134-03-2	60-100

We recommend handling all chemicals with caution.

## Section 4. First Aid Measures

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### Description of first aid measures

<b>Skin contact</b>	Rinse skin with water. If symptoms arise, call a physician.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
<b>Notes to Physician</b>	Treat symptomatically.

## Section 5. Fire-Fighting Measures

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### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No information available.

### Special hazards arising from the substance or mixture

Not known

### Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

## Section 6. Accidental Release Measures

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### 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

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## Section 7. Handling and Storage

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### 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.



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### Specific end use(s)

For research use only.

## Section 8. Exposure Controls/Personal Protection

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### Control parameters

#### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Sodium ascorbate	none	none	none	none

#### 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.

## Section 9. Physical and Chemical Properties

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### Information on basic physical and chemical properties

Appearance	solid
Odor	No data
Odor Threshold	No data
Molecular Weight	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

<b>Vapor Pressure</b>	No data
<b>Vapor density</b>	No data
<b>Relative density</b>	No data
<b>Specific gravity</b>	No data
<b>Solubility</b>	No data
<b>Partition coefficient:</b>	
<b>n-octanol/water</b>	No data
<b>Viscosity</b>	No data
<b>Explosive properties</b>	No data
<b>Oxidizing properties</b>	No data
<b>Other information</b>	No data.

## Section 10. Stability and Reactivity

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<b>Reactivity</b>	None known.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available

## Section 11. Toxicological information

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### Information on toxicological effects

Chemical Name	ID50 (oral, rat/mouse)	ID50 (dermal, rat/rabbit)	ID50 (inhalation, rat/mouse)
Sodium ascorbate	No data available	No data available	No data available

### Principal Routes of Exposure

<b>Eyes</b>	May cause eye irritation with susceptible persons.
<b>Skin:</b>	May cause skin irritation in susceptible persons.
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Carcinogenicity</b>	Data are conclusive but insufficient for classification
<b>Germ cell mutagenicity</b>	Data are conclusive but insufficient for classification
<b>Reproductive toxicity</b>	Data are conclusive but insufficient for classification
<b>Aspiration hazard</b>	Data are conclusive but insufficient for classification

## Section 12. Ecological Information

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### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility in soil** No information available.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### **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**

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### **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 accordance with 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.

## **Section 14. Transport Information**

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### **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**

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### **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**

Non-controlled

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.

**National Regulations - Brazil**

Not regulated

**Section 16. Other Information**

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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**