



7040 Virginia Manor Road  
Beltsville, MD 20705, USA  
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## Material Safety Data Sheet

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

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**Product name:** Dissolving Buffer

#### Manufacturer/Supplier identification

ABP Biosciences  
7040 Virginia Manor Road, Beltsville, MD 20705, USA  
Web: [www.abpbio.com](http://www.abpbio.com)  
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**For research use only. Not for use in diagnosis procedures**

### Section 2. Hazards Identification

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#### GHS Classification

**Signal Word:** Danger



**Hazard pictograms:**

#### Health hazards:

Reproductive Toxicity	Category 1A
Serious eye damage/irritation	Category 2

#### Physical hazards:

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 3

#### Environmental hazards:

Not classified

#### Hazard Statements:

H319 Causes serious eye irritation.  
H226 Flammable liquid and vapor.  
H360 May damage fertility or the unborn child.

#### Precautionary Statements

##### Prevention:

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Response:** P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:** P403 + P235 - Store in a well-ventilated place. Keep cool.

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

**Other hazards:** Not Applicable.

**HMIS**

Health	4
Flammability	3
Reactivity	0

**Section 3. Composition/Information on Ingredients**

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Substance name: Dissolving Buffer

Chemical Name	CAS No.	Weight-%
N,N-Dimethylformamide	68-12-2	50-100

We recommend handling all chemicals with caution.

**Section 4. First Aid Measures**

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**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**

H319 - Causes serious eye irritation H226 - Flammable liquid and vapor H360 - May damage fertility or the unborn child.

**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



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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**

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### **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**

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**

Take up mechanically, placing in appropriate containers for disposal.

### **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.

### **Specific end use(s)**

For research use only.

## **Section 8. Exposure Controls/Personal Protection**

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### **Control parameters**

#### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

## Hazardous components without workplace control parameters

Ingredients	CAS No.
N,N-Dimethylformamide	68-12-2

**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**

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### **Information on basic physical and chemical properties**

<b>Appearance</b>	liquid
<b>Odor</b>	No data
<b>Odor Threshold</b>	No data
<b>Melting point / melting range</b>	°C No data
<b>Boiling point / boiling range</b>	°C No data
<b>Flash point</b>	°C No data
<b>Autoignition Temperature</b>	°C No data
<b>Decomposition temperature</b>	°C No data
<b>Evaporation rate</b>	No data
<b>Flammability (solid, gas)</b>	No data
<b>Upper explosion limit</b>	No data
<b>Lower explosion limit</b>	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



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**Oxidizing properties** No data  
**Other information** No data.

## Section 10. Stability and Reactivity

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**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.  
**Incompatible materials** No dangerous reaction known under conditions of normal use.  
**Hazardous decomposition products** 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)
N,N-Dimethylformamide	2000 mg/kg	No data available	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 (STOT)–single exposure** Data are conclusive but insufficient for classification  
**Specific target organ toxicity (STOT)–repeated exposure** Data are conclusive but insufficient for classification  
**Carcinogenicity** Data are conclusive but insufficient for classification  
**Germ cell mutagenicity** Data are conclusive but insufficient for classification  
**Reproductive toxicity** Data are conclusive but insufficient for classification  
**Aspiration hazard** Data are conclusive but insufficient for classification

## Section 12. Ecological Information

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### Ecotoxicity

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

**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. Do not empty into drains. Do not dispose of waste into sewer.

## **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**

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**



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**End of Material Safety Data Sheet**