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## Material Safety Data Sheet

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

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**Product name:** Andy Fluor 488 azide

#### 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  
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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:** Warning



#### Hazard pictograms:

#### Health hazards:

Skin corrosion/irritation	Category 3
Serious eye damage/irritation	Category 2B
Specific target organ systemic toxicity (single exposure)	Category 3

#### Physical hazards:

H227 - Combustible liquid

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 4

#### Hazard Statements:

H316 - Causes mild skin irritation

H320 - Causes eye irritation

H335 - May cause respiratory irritation

#### Precautionary Statements

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P264 - Wash hands thoroughly after handling

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

**Eyes:** Irritating to eyes.  
**Skin:** Irritating to skin. Harmful in contact with skin. Components of the product may be absorbed into the body through the skin.  
**Inhalation:** Irritating to respiratory system. 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	2
Flammability	2
Reactivity	0

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

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Chemical Name	CAS No.	Weight-%
Andy Fluor 488 azide	-	0.1-1
DMSO	67-68-5	60-100

We recommend handling all chemicals with caution.

**Section 4. First Aid Measures**

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**Description of first aid measures**

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

**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



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**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.

### **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)
Andy Fluor 488 azide	none	none	none	none
DMSO	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.
<b>Eye protection</b>	Tight sealing safety goggles.
<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls</b>	
Prevent product from entering drains.	

## 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>Molecular Weight</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
<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.



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<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)
Andy Fluor 488 azide	No data available	No data available	No data available
DMSO	14500 mg/kg Oral LD50	No data available	No data available

### Principal Routes of Exposure

<b>Acute toxicity</b>	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
<b>Skin corrosion/irritation</b>	Skin irritation.
<b>Serious eye damage/irritation</b>	Irritating to eyes.
<b>Respiratory or skin sensitization</b>	Data are conclusive but insufficient for classification
<b>Specific target organ toxicity (STOT)–single exposure</b>	Data are conclusive but insufficient for classification
<b>Specific target organ toxicity (STOT)–repeated exposure</b>	Data are conclusive but insufficient for classification
<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.

<b>Mobility in soil</b>	No information available.
<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Results of PBT and vPvB assessment</b>	
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	
<b>Other adverse effects</b>	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.



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**End of Material Safety Data Sheet**