

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of:  
 Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

## Section 1: COMPANY AND PRODUCT IDENTIFICATION

### 1.1. Product identifier

<b>Product Name</b>	<b>myBaits® Target Capture Kit</b>	
	<u>myBaits Box #1</u>	
	- myBaits Hyb N	175 or 500 ul
	- myBaits Hyb S	750 ul
	- myBaits Beads	550 or 1600 ul
	- myBaits Binding Buffer	12 or 36 ml
	- myBaits Wash Buffer	20 or 60 ml
	<u>myBaits Box #2</u>	
	- myBaits Hyb D	70 or 190 ul
	- myBaits Hyb R	25 or 70 ul
	- myBaits Block C	50 or 130 ul
	- myBaits Block O	50 or 130 ul
	- myBaits Block A	30 ul
	<u>myBaits Box #3</u>	
	- myBaits Baits	50 ul

**Product Code** Cat# 3XXXXX

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

### 1.3. Details of the supplier of the safety data sheet

#### Company Information

Arbor Biosciences  
 5840 Interface Drive, Suite 101  
 Ann Arbor, MI 48103  
 USA  
 Tel: +1 (734) 998-0751  
 info@arborbiosci.com

For further information, please contact

### 1.4. Emergency telephone number

Emergency Telephone Chemtrec US (800) 424-9300 Chemtrec EU (202) 483-7616

## Section 2: HAZARDS IDENTIFICATION

### *Regulation (EC) No 1272/2008*

<b>Acute Toxicity Oral</b>	Category 2 - (H300)
<b>Acute Toxicity Inhalation</b>	Category 4 - (H322)
<b>Acute Toxicity Dermal</b>	Category 4 - (H312)
<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>STOT SE – may cause damage to organs</b>	Category 2 - (H371)
<b>STOT SE – may cause respiratory irritation</b>	Category 3 - (H335)

<b>Aquatic Acute</b>	Category 1 - (H400)
<b>Aquatic Chronic</b>	Category 1 - (H410)

## 2.2. Label elements



### Signal word

Danger

### Hazard statements

- H300 - Fatal if swallowed
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H371 - May cause damage to organs
- H410 - Very toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

### Precautionary Statements - EU (§28, 1272/2008)

- P261 - Avoid breathing spray.
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor
- 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
- P310 - Immediately call a POISON CENTER/doctor
- P312 - Call a POISON CENTER/doctor if you feel unwell
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P308 + P311 - If exposed or concerned: Get medical advice/attention
- P362 + P364 – Take off contaminated clothing and wash it before reuse
- P391 - Collect spillage

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical name	EC No	CAS No	Weight%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH STATUS
<b>Component – myBaits Hyb N</b>					
Disodium dihydrogen ethylenediaminetetraacetate	613-386-6	6381-92-6	10-30	Acute Tox 4; (H302) Acute Tox 4; (H312) Acute Tox 4; (H332) Skin Corr. 2; (H315)	Pre-registered

				Eye Irr. 2; (H319) STOT SE 3; (H335) Aquatic Chronic 3; (H412)	
<b>Component – myBaits Hyb S</b>					
Sodium dodecyl sulfate solution (SDS)	205-788-1	151-21-3	10	Acute Tox 4; (H302) Acute Tox 4; (H332) Skin Corr. 2; (H315) Eye Dam. 1; (H318) STOT SE 3; (H335) Aquatic Chronic 3; (H412)	Registered
<b>Component – myBaits Beads</b>					
Sodium azide	247-852-1	26628-22-8	<0.1	Acute Tox 2; (H300) Aquatic Acute 1; (H400) Aquatic Chronic 1; (H410)	Registered

**Full text of H- and EUH-phrases: see section 16**

## Section 4: FIRST AID MEASURES

### **4.1. Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Immediately get medical attention.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>Ingestion</b>	IF SWALLOWED: Immediately get medical attention.

### **4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
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### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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## Section 5: FIRE-FIGHTING MEASURES

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Water spray. Dry chemical. Foam.
<b>Unsuitable extinguishing media</b>	Water jet.

### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	No information available.
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### **5.3. Advice for firefighters**

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<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## **Section 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment as required.
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<b>For emergency responders</b>	Use personal protection recommended in Section 8.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Dike to collect large liquid spills.
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<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.
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<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
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## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	Ensure adequate ventilation.
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<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
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### **7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Store in accordance with local regulations. Store in original container in a fridge or freezer, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination
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### **7.3. Specific end use(s)**

<b>Risk Management Methods (RMM)</b>	The information required is contained in this Safety Data Sheet.
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## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

<b>Exposure Limits</b>	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
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Chemical name	European Union	United Kingdom	France	Spain	Germany
Sodium azide 26628-22-8	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	*TWA: 0.2 mg/m <sup>3</sup> *STEL: 0.4 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Sodium azide 26628-22-8	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Sodium azide 26628-22-8	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	*TWA: 0.2 mg/m <sup>3</sup> *STEL: 0.4 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>

\*Inhalable aerosol

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand Protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Physical state

##### Suspension

myBaits Beads

##### Liquid

myBaits Hyb N  
myBaits Hyb S  
myBaits Binding Buffer  
myBaits Wash Buffer  
myBaits Hyb D  
myBaits Hyb R  
myBaits Block C  
myBaits Block O  
myBaits Block A  
myBaits Baits

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**Appearance**

Liquid suspension  
myBaits Beads

Liquid

myBaits Hyb N  
myBaits Hyb S  
myBaits Binding Buffer  
myBaits Wash Buffer  
myBaits Hyb D  
myBaits Hyb R  
myBaits Block C  
myBaits Block O  
myBaits Block A  
myBaits Baits

Odor No data available  
Color No data available  
Odor threshold No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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pH

6 to 8

myBaits Hyb N  
myBaits Hyb S  
myBaits Binding Buffer  
myBaits Wash Buffer  
myBaits Hyb D

7.4

myBaits Beads

No data available

myBaits Hyb R  
myBaits Block C  
myBaits Block O  
myBaits Block A  
myBaits Baits

Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	Soluble in water
Solubility(ies)	
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## 9.2. Other information

Softening point	No data available
Molecular weight	No data available
VOC Content (%)	No data available
Liquid Density	No data available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity	No dangerous reaction known under conditions of normal use. <b>myBaits Beads</b> – Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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### Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal use.
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### 10.4. Conditions to avoid

Conditions to avoid	None under normal use.
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### 10.5. Incompatible materials

Incompatible materials	None under normal use.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal use.
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## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute Toxicity Product/Ingredient Name	Result	Species	Dose	Exposure
<b>myBaits Hyb N</b>				
Disodium dihydrogen ethylenediaminetetraacetate	LD50 Oral	Rat	2 g/kg	-
<b>myBaits Beads</b>				
Sodium azide	LD50 Oral	Rat	27 mg/kg	-

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**Information on likely routes of exposure:**

May be harmful by inhalation, in contact with skin and if swallowed. May be irritating to the eyes, respiratory system and skin. Use prudent laboratory practices for handling chemical substances.

**Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Information on toxicological effects**

**Symptoms** Causes skin irritation. Causes serious eye damage.

**Numerical measures of toxicity**

**Acute toxicity** Fatal if swallowed. Harmful if inhaled. Harmful if in contact with skin.  
**Unknown acute toxicity** None.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Causes skin irritation.  
**Serious eye damage/eye irritation** Causes eye damage.  
**Respiratory or skin sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** May cause respiratory irritation. May cause damage to organs.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

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**Section 12: ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects

Sodium dihydrogenorthophosphate	Acute LC50 186000 ug/L Fresh water	Fish - Gambusia affinis - Adult	96 hours
Disodium dihydrogen ethylenediaminetetraacetate	Acute LC50 320 mg/l Fresh water	Fish	96 hours



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### **12.2. Persistence and degradability**

**Persistence and degradability** No information available.

### **12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

### **12.4. Mobility in soil**

**Mobility in soil** No information available.

### **12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

### **12.6. Other adverse effects**

**Other adverse effects** No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

## **Section 14: TRANSPORT INFORMATION**

### **IMDG**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

### **RID**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

### **ADR**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

### **IATA**

Not regulated

14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)  
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

TSCA	Listed
DSL/NDSL	Listed DSL
EINECS/ELINCS	Registered/Pre-registered/NLP
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AICS	Listed
NZICS	Listed
TCSI	Listed

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZICS** - New Zealand Inventory of Chemicals

**TCSI** - Taiwan Chemical Substance Inventory

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

#### Canada

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

Canadian NPRI	Not Listed
WHIMIS (Canada)	Class D2B Toxic Material >1%: Skin/Eye Irritation reversible damage

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## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Full text of H-Statements referred to under section 3**

H300 - Fatal if swallowed  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H371 - May cause damage to organs  
H410 - Very toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

10-Mar-2020

#### **Revision Date**

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**