SAFETY DATA SHEET

Revised March 10, 2020

1. COMPANY AND PRODUCT INFORMATION

Product Name myBaits® Target Capture Kit

myBaits Box#1

-	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

myBaits Box#2

-	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

myBaits Box#3

-	myBaits Baits	50 ul

Product Code Cat# 3XXXXX

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

Company Information Arbor Biosciences
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Ann Arbor, MI 48103
USA

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Company Phone +1 (734) 998-0751

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

2. HAZARDS IDENTIFICATION

Emergency Overview - Use prudent laboratory practices for handling chemical substances.

OSHA/HCS status

Component – myBaits Hyb N	
Disodium dihydrogen ethylenediaminetetraacetate	Acute Tox Oral 4 Acute Tox Inhalation 4 Acute Tox Dermal 4 Skin Corr. 2 Eye Irr. 2 STOT SE 3

Component – myBaits Hyb S	
Sodium dodecyl sulfate solution (SDS)	Acute Tox Oral 4 Acute Tox Inhalation 4 Skin Corr. 2 Eye Dam. 1 STOT SE 3
Component – myBaits Beads	
Sodium azide	Acute Tox Oral 2

Label Elements

Danger

Hazard statements
Fatal if swallowed
Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye damage
Harmful if inhaled
May cause respiratory irritation
May cause damage to organs

Precautionary Statements
Avoid breathing spray.
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection
IF SWALLOWED: Immediately call a POISON CENTER/doctor
IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER/doctor
Call a POISON CENTER/doctor if you feel unwell
If eye irritation persists: Get medical advice/attention
If exposed or concerned: Get medical advice/attention
Take off contaminated clothing and wash it before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight%
Component – myBaits Hyb N		
Disodium dihydrogen ethylenediaminetetraacetate	6381-92-6	10-30
Component – myBaits Hyb S		
Sodium dodecyl sulfate solution (SDS)	151-21-3	10
Component – myBaits Beads		
Sodium azide	26628-22-8	<0.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

Inhalation Remove to fresh air.

Eye contact 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.

Skin contact 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.

Ingestion IF SWALLOWED: Immediately get medical attention.

5. FIRE-FIGHTING MEASURES

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire. Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. No action should be taken without suitable training. Provide adequate ventilation.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for cleaning up:	Dilute with water and soak up with inert absorbent material. Place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING & STORAGE

Handling	Always wear appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	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.
Methods for cleaning up	Dilute with water and soak up with inert absorbent material. Place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	No OSHA PEL, OSHA PEL (Ceiling), ACGIH OEL (TWA), ACGIH OEL (STEL) limits.
Engineering measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	Requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	Impervious gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM

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

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

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

Flash Point	No data available
Autoignition Temperature	No data available
Flammable Limits	No data available
Color	No data available
Odor	No data available
Boiling Point/Range	No data available
Melting Point/Range	No data available
Volatility	No data available
Viscosity	No data available
Water Solubility	Soluble
Oxidizing Properties	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Materials To Avoid	No dangerous reaction known under conditions of normal use. ***myBaits Beads*** – Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
Conditions to Avoid	None under normal use
Hazardous Decomposition Products	None under normal use
Possibility of Hazardous Reactions	None under normal use
Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Emergency Overview: Fatal if swallowed. Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause damage to organs. Use prudent laboratory practices for handling chemical substances.

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

Irritation/Corrosion	Causes skin irritation. May cause respiratory irritation.
Other Adverse Symptoms	Fatal if swallowed.
Sensitization	None available
Carcinogenic Effect	None available
Target Organ Effects	May cause damage to organs
Mutagenic Effects	None available

Teratogenic Effects	None available
Reproductive Toxicity	None available
Chronic Toxicity	None available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic life with long lasting effects (Sodium azide)
Other Adverse Effects	No known significant effects or critical hazards

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

Biodegradation	No data available
Bioaccumulation	Low to no potential

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. Empty containers retain product residue and can be hazardous. Do not reuse container.

The information presented in this document only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORTATION INFORMATION

DOT Proper shipping name: None
Non-hazardous for transport: This kit is considered to be non-hazardous for transport.

IATA Non-hazardous for air transport: This kit is considered to be non-hazardous for transport.

Hazard class - none

Subsidiary class - none

Packing group - none

UN/ID no. – none

15. REGULATORY INFORMATION

This product is for research use only.

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

U.S. Federal regulations

SARA 313
This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986: Sodium azide; CAS-No 26628-22-8; Weight % <0.1; Threshold Values 1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	Yes

CWA (Clean Water Act)
Ethylenediaminetetraacetate

CERCLA

This product contains the following chemical(s) subject to the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this materal. Sodium azide; CAS-No 26628-22-8; Weight % <0.1; Threshold Values 1.0

US State Regulations

Massachusetts	Listed – sodium azide
New York	None of the components are listed.
New Jersey	Listed – sodium azide
Pennsylvania	Listed – sodium azide
Illinois	None of the components are listed.
Rhode Island	Listed – sodium azide
California Prop. 65	None of the components are listed.

16. OTHER INFORMATION

FOR RESEARCH USE ONLY.
FOR IN VITRO USE ONLY.
NOT FOR USE IN HUMAN OR ANIMALS.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Revised: March 10, 2020

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