

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

<b>Product Name</b>	<b>Library Prep Kit for myBaits® (32 or 128 reactions)</b>	
	<u>Box A</u>	
	- Frag/AT Buffer	150 or 590 uL
	- Frag/AT Enzymes	220 or 890 uL
	- Ligation Mix	740 or 1480 uL
	- Amplification Mix	1150 or 1550 uL
	- P5/P7 Primer Mix	230 or 920 uL
	<u>Box B</u>	
	- SPRI Beads	7.5 mL
	- Buffer P	5.0 mL

**Product Code** 910032 or 910128

### 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

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

### 1.4. Emergency telephone number

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

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

Acute Toxicity Oral	Category 4 - (H302)
STOT SE – may cause damage to organs	Category 1 - (H370)
Aquatic Hazard (Chronic)	Category 3 - (H412)

## 2.2. Label elements



### Signal word

Danger

### Hazard statements

H302 - Harmful if swallowed

H370 - Causes damage to organs

H412 – Harmful to aquatic life with long lasting effects

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P308 + P311 - If exposed or concerned: Get medical advice/attention

## 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 – Box A (Frag/AT Buffer)</b>					
Tetramethylammonium chloride	200-880-8	75-57-0	≥5-<6	Acute Tox 4; (H302) STOT SE 1; (H370) Aquatic (Chronic) 3; (H412)	Registered

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.

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

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation continues consult a physician.

#### Skin contact

Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. If irritation continues consult a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Ingestion</b>	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.

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

**Symptoms** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

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

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapors:  
 Carbon dioxide  
 Carbon monoxide  
 Nitrogen oxides  
 Halogenated compounds  
 Metal oxide/oxides

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required.

**For emergency responders** Use personal protection recommended in Section 8.

## **6.2. Environmental precautions**

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Dispose of via a licensed waste disposal contractor.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **Section 7: HANDLING AND STORAGE**

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

**Advice on safe handling** Ensure adequate ventilation.

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

## **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep/store only in original container. Keep tightly closed in a dry and cool place.

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

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

# **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**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.

<b>Respiratory protection</b>	Use in well ventilated areas.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

	<u>Box A</u>	<u>Box B</u>
<b>Physical state</b>	Liquid	Liquid
<b>Appearance</b>	Clear	Slightly amber
<b>Odor</b>	Mild	Odorless
<b>pH</b>	7-8.5	7-7.5

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

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

<b>Reactivity</b>	No data available.
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### 10.2. Chemical stability

<b>Stability</b>	Stable under normal conditions.
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### **Explosion data**

<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing

### 10.4. Conditions to avoid

Conditions to avoid Incompatible materials. Ignition sources. Strong heating.

### 10.5. Incompatible materials

Incompatible materials Oxidizing agents. Strong acids or bases

### 10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides (CO, CO<sub>2</sub>).

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Ingredient name	Result	Species	Dose	Exposure
Tetramethylammonium chloride	LD50 Oral	Rat	50 mg/kg	-

### Information on likely routes of exposure:

#### Product Information.

**Inhalation** Causes damage to organs following a single exposure if inhaled.  
**Eye contact** No known significant effects or critical hazards.  
**Skin contact** Causes damage to organs following a single exposure in contact with skin.  
**Ingestion** Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

### Information on toxicological effects

**Symptoms** Harmful if swallowed. Causes damage to organs.

### Numerical measures of toxicity

**Acute toxicity**  
**Unknown acute toxicity** None.

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

**Skin corrosion/irritation** No known significant effects or critical hazards.  
**Serious eye damage/eye irritation** No known significant effects or critical hazards.  
**Respiratory or skin sensitization** No known significant effects or critical hazards.  
**Germ cell mutagenicity** No known significant effects or critical hazards.  
**Carcinogenicity** No known significant effects or critical hazards.  
**Reproductive toxicity** No known significant effects or critical hazards.  
**STOT - single exposure** No known significant effects or critical hazards.  
**STOT - repeated exposure** No known significant effects or critical hazards.  
**Aspiration hazard** No known significant effects or critical hazards.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects

Ingredient name	Result	Species	Exposure
Tetramethylammonium chloride	Acute LC50 462 mg/L Fresh water	Fish – Pimephales promelas	96 hours

### 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** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

**Contaminated packaging** Empty containers must be tripled rinsed prior to disposal.

## **Section 14: TRANSPORT INFORMATION**

### IMDG

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 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### IATA

	<b>Not regulated</b>
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. 2023/2055 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 2023/2055 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

#### International Inventories

TSCA	Listed
DSL/NDL	Listed DSL
EINECS/ELINCS	Listed
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AIIC	Listed
NZICoS	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

**AIIC** - Australian Inventory of Industrial Chemical

**NZICoS** - 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 D2A: Very Toxic Material at $\geq 1\%$



## 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

H302 - Harmful if swallowed

H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

Revision Date 27-Mar-2024

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

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End of Safety Data Sheet