

## Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** IsHyb In Situ Hybridization Kit  
**Catalog #** K2191020 and K2191050  
**Manufacturer** Biochain Institute, Inc.  
39600 Eureka Drive  
Newark, CA 94560  
USA  
510.783.8588 or 1.888.762.2568  
Email: [info@biochain.com](mailto:info@biochain.com)

**Emergency Phone #** Contact your local hazardous material control center.  
Call 911 in case of medical emergency.

### Section 2. Hazards Identification

#### GHS Classification

Carcinogenicity (Category 2) H351  
Reproductive toxicity (Category 1B) H360  
Specific target organ toxicity - repeated exposure, Oral (Category 2), Blood H373  
Acute Toxicity (Category 4) H312, H332  
Eye Irritation (Category 2A) H319

#### Pictogram



**Signal word:** Danger

#### Hazard statements

H226 Flammable liquid and vapor.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

#### Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant

### Section 3. Composition and Information on Ingredients

This product contains the following components and mixture of the following substances with non-hazardous additions.

Prehybridization solution:	Formamide, (CAS #: 75-12-7)	<70%
Hybridization solution:	Formamide, (CAS #: 75-12-7)	<70%
NBT:	N,N-dimethylformamide, (CAS #: 68-12-2)	50 - 75%
	Nitro Blue Tetrazolium, (CAS #: 298-83-9)	1 - 5%
BCIP:	N,N-dimethylformamide, (CAS #: 68-12-2)	75-100%
	5-Bromo-4-chloro-3-indolyl phosphate p-toluidine salt, (CAS #: 6578-06-9)	1 - 5%
20x SSC:	No hazardous ingredients	
10x AP buffer:	No hazardous ingredients	
Anti-Dig antibody:	No hazardous ingredients	
100x Blocking solution:	No hazardous ingredients	

#### **Section 4. First Aid Measures**

**General:** Symptoms of poisoning may even occur after several hours. Consult a physician

**If Inhaled:** Move exposed person to fresh air. If irritation persists, obtain medical attention.

**In case of skin contact:** Wash exposed skin with mild soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and shoes. If pain or irritation persists, seek medical attention.

**In case of eye contact:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

**If Ingested:** Rinse mouth with water. If the patient feels unwell or is concerned, obtain medical advice.

#### **Section 5. Fire Fighting Measures**

**Flammability of the Product:** flammable.

**Extinguishing media:** Use water spray, extinguishing media suitable for surrounding fire.

**Special firefighting procedures:** wear Mouth respiratory protective device and protective clothing to prevent contact with skin and eyes.

#### **Section 6. Accidental Release Measures**

**General Measures:** Keep unnecessary people away. Wear protective clothing. Avoid breathing vapors.

**Environmental Precautions:** Contain spill to prevent migration. Absorb spilled material with an appropriate inert, Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:** Absorb with liquid-binding material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### **Section 7. Handling and Storage**

**Handling:** Avoid contact with eyes, skin, and clothing. Ensure good ventilation/exhaustion at the workplace. Avoid inhalation of vapor. Keep container closed.

**Storage:** See User's Manual for storage information. Protect workers and environment.

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

**Exposure Controls:** NA

**Eyes:** Splash goggles.

**Skin and Body:** Lab coat.

**Respiratory:** Use respiratory filter device if necessary

**Hands:** General lab safety gloves.

#### **Section 9. Physical and Chemical Properties**

**Appearance:** Solution

**Boiling Point:** No data available

**Freezing Point:** No data available

**Melting Point:** No data available

**Specific Gravity:** No data available

**Vapor Density & Pressure:** No data available

**Auto-ignition temperature:** No data available

**Decomposition Temperature:** No data available

**Flammability (Solid, Gas):** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

#### **Section 10. Stability and Reactivity**

**Stability and Reactivity:** The product is stable under recommended storage conditions

**Incompatibility with Various Substances:** Bases, Oxidizing agents, Hydrogen peroxide, Iodine, Pyridine, Sulphur oxides

**Hazardous Decomposition Products:** When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product. Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>) In the event of fire

## ***Section 11. Toxicological Information***

### ***Carcinogenicity:***

**IARC:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

## ***Section 12. Ecological Information***

No data available.

## ***Section 13. Disposal Considerations***

### ***Waste Information:***

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## ***Section 14. Transport Information***

Contact BCI for all transport information.

## ***Section 15. Regulatory Information***

N/A

## ***Section 16. Other Information***

The information contained in this SDS was obtained from sources we believe are reliable. However, the above information is provided without warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.