

## Manual Chromogenic Multiplex IHC Kit

## **MATERIAL SAFETY DATA SHEET**

## Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010

CP02M-010 CP03M-010

Kit Component: Conjugated Antibody and other biomolecules

1.2: Product Uses For Research Use Only. Not for use in diagnostic products.

## 1.3: Company/undertaking Identification

Cell IDx, Inc.

6167 Cornerstone Court E, Ste 102

San Diego, CA 92121

858.452.5800

## Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

**GHS-US** classification

### 2.2: Label Elements

GHS-US labeling No label applicable

#### 2.3: Other Hazards

No additional information available

## 2.4: Principal Routes of Exposure/Potential Health Effects

May cause eye irritation with susceptible persons.

## Section 3: Composition/information on ingredients

Proclin 150	CAS# 55965-84-9	<0.1%

This product contains no substances which at their given concentration are considered to be hazardous to health.

## Section 4: First Aid Measures

**Skin contact** Rinse cautiously with water for several minutes. Immediate

medical attention is not required.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do.

Ingestion Not expected to present a significant ingestion hazard under

anticipated conditions of normal use. If you feel unwell, seek

medical advice.

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**Inhalation** Not expected to be an inhalation hazard under anticipated

conditions of normal use of this material. Consult a physician if

necessary.

Most important symptoms and effects, both acute and delayed

Not Applicable

Notes to Physician Treat symptomatically.

## Section 5: Firefighting measures

Suitable extinguishing media Special protective equipment

for firefighters

Specific hazards arising

from the chemical

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

Standard procedure for chemical fires.

Not known

## Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions No special environmental precautions required

## Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. No

special handling advice are necessary.

**Storage** Keep in a dry, cool and well-ventilated place

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available.

### 8.2. Exposure controls

Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of

dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when handling

product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Not normally needed. In case of insufficient ventilation

wear suitable respiratory equipment.

Environmental exposure controls: Maintain levels below Community environmental protection

thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## Section 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state: Liquid

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Appearance: Clear Color: Colorless

Odor: No data available Odor threshold: No data available No data available pH: Melting point: No data available Freezing point: No data available Boiling point: No data available Flash point: No data available Relative evaporation rate (butylacetate=1): No data available Flammability (solid, gas): Not flammable **Explosive limits:** No data available No data available Explosive properties: Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: No data available Partition coefficient: n-octanol/water: No data available Loa Kow: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available

## Section 10: Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use.

Possibility of hazardous Hazardous reaction has not been reported

reactions

Hazardous decomposition None u

**Products** 

None under normal use conditions.

**Polymerization** Hazardous polymerization does not occur.

Conditions to avoid None under normal processing

## Section 11: Toxicological information

**Acute Toxicity** No toxicology information is available.

Principle Routes of Exposure Potential Health Effects

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

Carcinogenic effectsNone.Mutagenic effectsNone.Reproductive toxicityNone.SensitizationNone.

## Section 12: Ecological information



**Ecotoxicity**Contains no substances known to be hazardous to the

environment or not degradable in wastewater treatment plants.

MobilityNo information available.BiodegradationInherently biodegradable.

**Bioaccumulation** Material does not bioaccumulate.

## Section 13: Disposal considerations

13.1 Waste treatment This material must be dispose of in accordance with all

**Recommendations** local, state, provincial and federal regulations. The generation of

waste should be avoided or minimized wherever possible.

## Section 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport.

Other information No supplementary information available

Special transport precautions No not handle until all safety precautions have been read and

understood.

## Section 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

## Section 16: Other information

Other information:	None.

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## **MATERIAL SAFETY DATA SHEET**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010

CP02M-010 CP03M-010

Kit Component: HRP-Yellow Chromogen (50X)

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

Recommended use: Immunohistochemistry (IHC)

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

MANUFACTURER EMAIL ADDRESS: Cell IDx, Inc. support@cellidx.com

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

### 1.4 Emergency telephone number

9 am-5 pm Pacific time, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified

Human health Muta. 2 - H341; Carc. 1B - H350

Environment Not classified.

Classification (1999/45/EEC) Carc. Cat. 2;R45. Muta Cat. 3;R68.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### 2.2 Label elements

Contains BIPHENYL-3,3',4,4'-TETRAYL-TETRAAMINE

Label in Accordance With (EC) No. 1272/2008



Signal Word Danger

**Hazard Statements** 

H341 Suspected of causing genetic defects.

H35 May cause cancer.

**Precautionary Statements** 

P202 Do not handle until all safety precautions have been read and

understood.

P280 Wear protective clothing, gloves, eye and face protection. P308+313 IF exposed or concerned: Get medical advice/attention.

#### 2.3 Other information

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

BIPHENYL-3,3',4,4'-TETRAYL-TETRAAMINE <5% CAS-No.: 91-95-2 EC No.: 202-110-6

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Classification (EC 1272/2008) Classification (67/548/EEC)

Muta. 2 - H341 Muta. Cat. 3;R68 Carc. 1B - H350 Carc. Cat. 2;R45

ETHYLENE GLYCOL <80% CAS-No.: 107-21-1 EC No.: 203-473-3

Classification (EC 1272/2008) Classification (67/548/EEC)

Not classified [Xn] R22

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### If inhaled

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

### If ingested

Immediately rinse mouth and drink plenty of water (200-300 ml). DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

#### In case of skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

### In case of eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Obtain medical attention and bring these instructions.

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

#### Inhalation

May cause coughing or mild irritation.

### Ingestion

May cause discomfort if swallowed.

### Skin contact

Prolonged skin contact may cause redness and irritation.

## Eye contact

May cause temporary eye irritation.

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

No specific first aid measures noted. Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Fire can be extinguished using Water spray. Foam. Powder.

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

The product is non-combustible. If heated, irritating vapors may be formed. Hydrogen chloride (HCI). When heated and in case of fire, very toxic nitrogen oxides are formed.

## 5.3. Advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES



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

Stop leak, if possible, without any risk. Remove or isolate all sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

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

Absorb spillage with suitable absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

#### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not

exceeded. Avoid inhalation of vapors/spray and contact with skin and eyes. Wash contaminated clothing before reuse.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Refer to product label.

Storage Class: Refer to product datasheet.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name: ETHYLENE GLYCOL

Workplace Exposure Limit UK - 8 hour TWA: 60 mg/m3 UK - 15 min. STEL: 125 mg/m3

### 8.2. Exposure controls

### **Protective equipment**

Impermeable gloves and safety glasses

### **Process conditions**

Provide eyewash station.

#### **Engineering measures**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

#### Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

### **Hand protection**

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the glove's supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

#### Eve protection

If risk of splashing, wear safety goggles or face shield.

### Other Protection

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Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Skin protection

Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance Form: Liquid

Color: Light brown/purple

Odor Odorless

Solubility Soluble in water.

Initial boiling point and <100 @ 760 mm Hg

boiling range

Melting point (°C)  $\sim 0$ °C Relative density  $\sim 1 \text{ g/ml}$ 

Vapor density (air=1) No Data Available Vapor pressure No Data Available Evaporation rate No Data Available Viscosity No Data Available Solubility Value (G/100G H2O@20°) No Data Available Decomposition temperature (°C) No Data Available Flash point No Data Available Auto Ignition Temperature (°C) No Data Available Flammability Limit - Lower(%) No Data Available Flammability Limit - Upper(%) No Data Available

Partition Coefficient

(N-Octanol/Water) No Data Available Explosive properties No Data Available Oxidizing properties, No Data Available

#### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

## 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions.

## 10.3. Possibility of hazardous reactions

Hazardous Polymerization Will not polymerize

#### 10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

## 10.5. Incompatible materials

Materials to Avoid Strong alkalis

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### 10.6. Hazardous decomposition products

Oxides of: Carbon, Nitrogen

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

Toxicological information No information available

Acute toxicity:

Acute Toxicity (Oral LD50)

Mouse 1834 mg/kg

Skin Corrosion/Irritation:

Human Skin Model Test
Serious eye damage/irritation:
Respiratory sensitization
Skin sensitization
Germ cell mutagenicity (InVitro)
Carcinogenicity
Reproductive Toxicity – Fertility
Not determined
Not determined
Not determined
Not determined

Specific target organ toxicity - single exposure:

STOT - Single exposure Not determined Specific target organ toxicity – repeated exposure:

STOT - Repeated exposure Not determined

Aspiration hazard:

Viscosity Not determined

Inhalation

In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Ingestion

Harmful if swallowed.

Skin contact

Liquid may irritate skin. Not a skin sensitizer.

Eye contact

Spray and vapor in the eyes may cause irritation and smarting.

**Health Warnings** 

Known or suspected mutagen. Known or suspected carcinogen for humans.

Route of entry

Ingestion. Skin and/or eye contact.

Toxicological information on ingredients.

BIPHENYL-3,3',4,4'-TETRAYL-TETRAAMINE (CAS: 91-95-2)

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity There are no data on the ecotoxicity of this product.

12.1. Toxicity

Acute Toxicity – Fish Not determined

### 12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product. This product is expected to be not readily biodegradable.

### 12.3. Bio accumulative potential

Bio accumulative potential

No data available on bioaccumulation. The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Not determined

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### 12.4. Mobility in soil

Mobility: The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

Not expected to be PBT or vPvB

#### 12.6. Other adverse effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORTATION INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

Road Transport Notes
Rail Transport Notes
Sea Transport Notes
Air Transport Notes
Not classified
Not classified
Not classified
Not classified

### 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

### 14.6. Special precautions for user

Not applicable.

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

# **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

**Guidance Notes** 



Workplace Exposure Limits EH40.

### **EU** Legislation

Regulation (EU) No 453/2010 of 20 May 2010 Annex II and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

General information Only trained personnel should use this material.

Risk Phrases In Full

R22 Harmful if swallowed R45 May cause cancer.

R68 Possible risk of irreversible effects.

Hazard Statements In Full

H350 May cause cancer.

H341 Suspected of causing genetic defects.

**Disclaimer:** This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## **MATERIAL SAFETY DATA SHEET**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP03M-010

Kit Component: HRP-Yellow Buffer (1X)

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

Recommended use: Immunohistochemistry (IHC)

1.3. Details of the supplier of the safety data sheet

MANUFACTURER EMAIL ADDRESS: Cell IDx, Inc. info@cellidx.com

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

1.4. Emergency tselephone number

9 am-5 pm PST, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

GHS Classification in accordance with EC 1272/2008

Physical and Chemical Hazards Not classified
Human health Not classified
Environment Not classified
GHS Classification in accordance with 1999/45/EEC

Not classified

2.2. GHS label elements

Label in accordance with (EC) No. 1272/2008

Not classified

Supplemental Label information (EU)

EUH210 Safety data sheet available on request

2.3. Other hazards which do not result in classification

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

DescriptionCAS#EINECS#%Hydrogen Peroxide Solution7722-84-1231-765-0<1%</td>

Classification (EC 1272/2008) Classification (67/548/EEC)

Ox. Liq. 1 - H271 R5
Acute Tox. 4 - H302 O;R8
Acute Tox. 4 - H332 C;R35
Skin Corr. 1A - H314 Xn;R20/22

STOT Single 3 H335

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Citric Acid 770-92-9 201-069-1 <1%

Classification (EC 1272/2008) Classification (67/548/EEC)

Eye Irrt. 2 – H319 Xi;R36

The Full Test for all R-Phrases and Hazard Statements are Displayed in Section 16.

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

#### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician if symptoms occur after washing.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if any discomfort continues.

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

#### Inhalation

May cause coughing or mild irritation

## Ingestion

May cause discomfort if swallowed

#### **Skin Contact**

Prolonged skin contact may cause redness and irritation

#### **Eye Contact**

May cause temporary eye irritation

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No specific first aid measures noted.

## SECTION 5: FIREFIGHTING MEASURES

## 5.1. Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials

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

None under normal condition.

## 5.3. Special advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation of spray mist and contact with skin and eyes. Use protective gloves, goggles and suitable protective clothing. For personal protection, see section 8.



### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

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

Stop leak if possible without risk. Absorb spillage with suitable absorbent material. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet

## SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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

Keep in original container. Store at specified temperature. Refer to product label.

Storage Class: Refer to product datasheet.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Components with workplace control parameters

Name: HYDROGEN PEROXIDE SOLUTION

Workplace Exposure Limit

UK - 8 hour TWA: 1.4 mg/m3

UK - 15 min. STEL: 2.8 mg/m3

## 8.2. Exposure controls

### **Protective equipment**

Impermeable gloves and safety glasses

### **Process conditions**

Provide eyewash station.

### **Engineering measures**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

### Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

### **Hand protection**

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

#### Eve protection

If risk of splashing, wear safety goggles or face shield.

### **Other Protection**

Wear appropriate clothing to prevent any possibility of skin contact.

### **Hygiene measures**



DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## Skin protection

Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance Form: Liquid

Color: Colorless

Odor Odorless

Solubility Soluble in water
Initial boiling point and boiling range <100 @ 760 mm Hg

Melting point (°C)  $\sim 0$ °C Relative density  $\sim 1 \text{ g/ml}$ 

Vapor density (air=1) Not determined Vapor pressure Not determined Evaporation rate Not determined Viscosity Not determined Solubility Value (G/100G H2O@20°C) Not determined Decomposition temperature (°C) Not determined Flash point Not applicable Auto Ignition Temperature (°C) Not determined Flammability Limit - Lower(%) Not applicable Flammability Limit - Upper(%) Not applicable

**Partition Coefficient** 

(N-Octanol/Water) Not determined Explosive properties Not applicable

Oxidizing properties Does not meet the criteria for oxidizing

### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

## 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under normal temperature conditions

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight

#### 10.5. Incompatible materials

Materials To Avoid Strong alkalis

#### 10.6. Hazardous decomposition products

None under normal conditions



## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information No information available

Acute Toxicity (Oral LD50) Not determined

Skin Corrosion/Irritation

Human Skin Model
Serious eye damage/irritation
Respiratory sensitization
Skin sensitization
Scin sensitization
Scin sensitization
Serm cell mutagenicity (In Vitro)
Carcinogenicity
Reproductive Toxicity – Fertility
Not determined
Not determined
Not determined
Not determined

Specific target organ toxicity

Single exposure
Repeated exposure
Aspiration hazard
Not determined
Not determined

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

May cause discomfort if swallowed.

Skin contact

Liquid may irritate skin.

Eye contact

Spray and vapor in the eyes may cause irritation and smarting.

Health Warnings

Known or suspected mutagen. Known or suspected carcinogen for humans.

Route of entry Ingestion.

Skin and/or eye contact.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not considered toxic to fish

### 12.2. Persistence and degradability

This product is expected to be biodegradable

#### 12.3. Bio accumulative potential

This product does not contain any substances expected to be bioaccumulating

### 12.4. Mobility in soil

This product is soluble in water

## 12.5. Results of PBT and vPvB assessment

No information available

### 12.6. Other adverse effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product



#### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORTATION INFORMATION

#### General

The product is not covered by international regulation on the transport of dangerous goods (MDG, IATA, ADR/RID)

Road Transport Notes
Rail Transportation Notes
Sea Transport Notes
Air Transport Notes
Not Classified
Not Classified
Not Classified
Not Classified

### 14.1. UN number/UN Proper Shipping Name

Not applicable.

### 14.2. DOT (US)

Not dangerous good

### 14.3. Transport hazard class(es)

Not dangerous goods.

## 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutants No

### 14.6. Special precautions for user

None

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### SECTION 15: REGULATORY INFORMATION

# **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

**Guidance Notes** 

Workplace Exposure Limits EH40.

**EU** Legislation

Regulation (EU) No 453/2010 of 20 May 2010 Annex II and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.



### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## **SECTION 16: OTHER INFORMATION**

General information Only trained personnel should use this material.

**Risk Phrases In Full** 

R35 Causes severe burns

R8 Contact with combustible material may cause fire

R20/22 Harmful by inhalation and if swallowed R5 Heating may cause an explosion

R36 Irritating to eyes

R37 Irritating to respiratory system

**Hazard Statements In Full** 

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation.

**Disclaimer**: This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# **Material Safety Data Sheet**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP02M-010

Kit Component: Red AP Chromogen (50x)

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

Recommended use: Immunohistochemistry (IHC)

1.3. Details of the supplier of the safety data sheet

MANUFACTURER EMAIL ADDRESS: Cell IDx, Inc. info@cellidx.com

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

1.4. Emergency tselephone number

9 am-5 pm PST, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture

OSHA/HCS status Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

2.2 Label elements

Signal Word Warning

**Hazard Statements** 

H315 Causes skin irritation H319 Causes eye irritation

H335 May cause respiratory irritation

**Precautionary Statements** 

P202 Do not handle until all safety precautions have been read and

understood.

P280 Wear protective clothing, gloves, eye and face protection. P308+313 IF exposed or concerned: Get medical advice/attention.

P234 Keep only in original container.

P264 Wash hands thoroughly after handling.
P390 Absorb spillage to prevent material damage.

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 attention.

Storage

P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal

P501 Dispose of in an approved waste disposal plant

2.3 Other information

None

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## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

 Component
 CAS number
 EC number
 %

 Naphthol-AS-MX 1596-56-1
 216-480-1
 < = 100%</td>

phosphate sodium salt

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: FIRST AID MEASURES

### 4.1. Potential acute health effects

Eye contact Causes eye irritation.

Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

### 4.2. Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

irritation watering redness

InhalationNo specific dataSkin contactNo specific dataIngestionNo specific data

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

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.

Specific treatments

If inhaled Move person to fresh air. Give artificial respiration if not breathing.

Consult physician

If skin contact

Wash generously with soap and water. Consult physician.

Rinse with water for at least 15 minutes. Consult physician

NEVER give anything to unconscious person. Rise mouth with

water. Consult physician

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

Fire can be extinguished using: Water spray. Foam. Powder.

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

Not combustible

Decomposition products may include

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Carbon oxides, nitrogen oxides, phosphorus oxides.

### 5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Wear appropriate protective equipment and self-containing breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep 4-unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Emergency responders** 

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2. 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

Clean without creating dust. Seep up and shovel product and store in a closed container suitable for storage until disposal

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. Absorb spillage to prevent material damage.

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. See also Section 8 for additional information on hygiene measures.

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

Specific storage conditions, consult label

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Keep away from metals. 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. See Section 10 for incompatible materials before handling or use.

## 7.3. Specific end use(s)



The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

### Components with workplace control parameters

No substance with occupational exposure limit values

## 8.2. Exposure controls

## **Appropriate engineering controls**

Wash hands after use before breaks and at the end of the workday. Keep with good hygiene and safety practices.

### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## Skin protection

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Form: Liquid Color: Amber

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Odor not available Odor threshold not available Hq not available Melting point not available **Boiling point** not available Flash point not available Evaporation rate not available Flammability (solid, gas) not available Lower and upper explosive not available

(flammable) limits

Vapor pressure not available
Vapor density not available
Relative density not available

Solubility Soluble in cold and hot water

Partition coefficient: n-octanol/water not available Auto-ignition temperature not available not available Viscosity not available not available

#### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2. Chemical stability

The product is stable under recommended storage conditions

## 10.3. Possibility of hazardous reactions

No specific data

## 10.4. Conditions to avoid

No specific data

## 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Under fire conditions: carbon oxides, nitrogen oxides, phosphorus oxides

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Toxicological information

Acute toxicity
Irritation/Corrosion
Sensitization
No information available
Carcinogenicity
No information available
Reproductive toxicity
No information available
Teratogenicity
No information available

Specific target organ toxicity (repeated exposure)

No information available

Aspiration hazard No information available



### 11.2. Routes of entry and health effects

Information on the likely Routes of entry anticipated: Oral, Dermal, Inhalation.

routes of exposure

Potential acute health effects

Eye contact Causes eye irritation

Inhalation May cause respiratory irritation

Skin contact

No known significant effects or critical hazards.

No known significant effects or critical hazards.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity** Not available

#### 12.2. Persistence and degradability

Not available

## 12.3. Bio accumulative potential

Not available

## 12.4. Mobility in soil

Not available

#### 12.5. Other adverse effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

Generation of waste should be avoided or minimized whenever possible. Dispose of product, solutions, and by-products according to the requirements of environmental protection and waste disposal legislation and any regional authority requirements. Disposed of unused product as if unopened. Waste should not be disposed of untreated into a sewage system unless fully compliant with the requirements of all authorities with jurisdiction. Recycle waste packaging whenever possible. Take care when handling emptied containers that have not been cleaned or rinsed out. Empty containers may retain some product residues. DO NOT allow spilled material and runoff to contact drains, sewers, soil, or waterways.

The information presented below 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

## SECTION 14: TRANSPORTATION INFORMATION

14.1. DOT (US)

Not a dangerous good

14.2. IMDG

Not a dangerous good



#### 14.3. IATA

Not a dangerous good

## SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

#### 15.2. SARA 302/304

No chemicals part of this material are required to be reported per SARA Title III, Section 302

#### 15.3. SARA 313

No chemical part of this material are required to be reported per SARA Title III, Section 313

#### 15.4. SARA 311/312

Acute Health Hazard

### 15.5. SARA 313

No data available

### 15.6. State regulations

Massachusetts

The following components are listed: None

Pennsylvania

The following components are listed: 3-(Phosphonooxy)-N-(2,4-xylyl)naphthalene-2-carboxamide (CAS 1596-56-1)

New York

The following components are listed: 3-(Phosphonooxy)-N-(2,4-xylyl)naphthalene-2-carboxamide (CAS

1596-56-1) New Jersev

The following components are listed: None

## SECTION 16: OTHER INFORMATION

#### **Disclaimer**

This information relates only to the specific material designated ane may not be valid for such material used in combination with any other materials or in any process. Such information i, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## **Material Safety Data Sheet**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010 CP03M-010

Kit Component: AP-Red Buffer (1X)

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

Recommended use: Immunohistochemistry (IHC)

1.3. Details of the supplier of the safety data sheet

MANUFACTURER EMAIL ADDRESS:
Cell IDx, Inc. info@cellidx.com
6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

**1.4. Emergency tselephone number** 9 am-5 pm PST, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

Hazard Class Category Category Hazard Statements (H-Statements)

N/A N/A This product has been classified

N/A N/A This product has been classified as nonhazardous based on the physical and/or chemical nature and/or concentration of

ingredients

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1B), H314 Serious eye Damage (Category 1), H318 Reproductive toxicity (Category 1B), H360

## 2.2. Label elements

**Danger** 



H-Statements N/A P-Statements N/A EUH-Statements N/A

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component 1

Name Identifiers Classification according to Classification (for pure

CLP substances)

**Hydrochloric** EC: 231-585-7 Concentration <0.5% N/A

Acid CAS: 7647-01-0 Component 2

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Name Identifiers Classification according to Classification (for pure

CLP substances)

**Proclin 300** EC: 613-167-00-5 Concentration <0.1% R43 CAS: 55965-84-9

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation: Remove to fresh air.

**Skin contact:** Wash thoroughly with soap and water.

**Eye Contact:** Flush eyes with water as a precaution.

**Ingestion:** Do not induce vomiting. Wash out mouth with water.

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

Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of immediate medical attention and special treatment needed, if necessary  $N/\!\!/\!\!/$ 

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Extinguish using suitable agents

### 5.2. Special advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing to prevent contact with eyes and skin. Ensure adequate ventilation. Collect on absorbent material and dispose of according to federal, state and local environmental regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Use only with adequate ventilation. Wear eye protection and compatible chemical-resistant gloves. Handle in accordance with good industrial hygiene and safety practice.

# 7.2. Conditions for safe storage, including any incompatibilities Store at $2^{\circ}$ - $8^{\circ}$ C

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1 Exposure Controls**

Respiratory Controls

Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator



**Skin and Body Protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Eye/Face Protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Hygiene Measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Liquid Odor: None pH: 8.6 Boiling point: N/A Melting point: N/A Flash point: N/A Auto flammability: N/A Vapor Pressure: N/A Relative density: N/A Solubility: N/A

### SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

N/A

### 10.2. Chemical stability

Stable under recommended storage conditions

## 10.3. Possibility of hazardous reactions

N/A

## 10.4. Conditions to avoid

Strong prolonged heat and contact with incompatible materials

### 10.5. Incompatible materials

Strong Acids, Strong Bases, Strong Oxidizers, Metals and Metallic compounds

### 10.6. Hazardous decomposition products

N/A



## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

### **Component 1**

Hydrochloric Acid (in pure form): oral toxicity (LD50 900 mg/kg (rabbit)

Common route of entry
Potential Effects of Acute Exposure
Potential Effects of Chronic Exposure
N/A
Symptoms of Overexposure
N/A
N/A

## Component 2

**Proclin 300 (in pure form)**: LD50 (oral-rat): 3600 mg/kg (100%)

Common route of entry Ingestion

Potential Effects of Acute Exposure The product contains <0.1% of Proclin 300TM

which corresponds to

<0.0015% of its active ingredients. At this low final concentration, this biocidal preservative is irritating to eyes and skin and may be detrimental if enough is ingested (quantities above those found in the kit). It is a skin sensitizer; prolonged or repeated

Potential Effects of Chronic Exposure It is a skin sensitizer; prolonged or repeated

exposure may cause allergic reaction in certain

 $sensitive\ individuals.$ 

Symptoms of Overexposure Allergic skin reaction

## SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

N/A

12.2. Persistence and degradability

N/A

12.3. Bio accumulative potential

N/A

12.4. Mobility in soil

N/A

12.5. Other adverse effects

N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: TRANSPORTATION INFORMATION

14.1. UN number/UN Proper Shipping Name



N/A.

14.2. DOT (US)

N/A.

14.3. Transport hazard class(es)

N/A..

14.4. IMDG

N/A.

14.5. IATA

N/A.

## SECTION 15: REGULATORY INFORMATION

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

### **SARA 302 Component**

No chemicals in this material are subject to the reporting requirements.

## **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

## SARA 311/312 Component

Acute Health Hazard. Chronic Health Hazard

## SECTION 16: OTHER INFORMATION

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Company shall not be held liable for any damage resulting from handling or from contact with the above product.



## **Material Safety Data Sheet**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP03M-010

Kit Component: HRP-Blue Chromogen (50X)

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

Recommended use: Immunohistochemistry (IHC)

1.3. Details of the supplier of the safety data sheet

MANUFACTURER EMAIL ADDRESS: Cell IDx, Inc. info@cellidx.com

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

1.4. Emergency tselephone number

9 am-5 pm PST, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350

Component	Classification	Concentration				
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride						
	Acute Tox. 4; Eye Irrit. 2A; Muta. 2; Carc. 1B; H302, H319, H341, H350	<= 5%				
Component	Classification	Concentration				
Propane-1,2-diol	·					
		<= 60%				
Component	Classification	Concentration				
Hydroxynaphthalene hydrocar	bon					
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	<=1%				

# 2.2. GHS label elements





Harmful if swallowed

Suspected of causing genetic defects.

May cause cancer.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

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

IF exposed or concerned: Get medical advice/attention.

IF eye irritation persists: Get medical advice/attention.

Store locked up.

Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards which do not result in classification

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description	CAS#	EINECS#	%
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride	7411-49-6	231-018-9	2 - 5
Hydroxynaphthalene hydrocarbon	5111-66-0	N/A	0.5 - 1
1.2-propane-diol	57-55-6	200-338-0	50 - 60

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled** 

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Indication of any immediate medical attention and special treatment needed No data available

## SECTION 5: FIREFIGHTING MEASURES



### 5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

### 5.3. Special advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2

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

Store with desiccant. Keep container tightly closed in a dry and well-ventilated place Recommended storage temperature 4°C.

Light sensitive

Storage class (TRGS 510) Non-combustible, acute toxic Cat.3/ toxic hazardous materials or hazardous materials causing chronic effects.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

### Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	
Propane-1,2-diol	57-55-6	TWA	10.000000	USA. Workplace Environmental
			mg/m³	Exposure Levels (WEEL)

## 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3 Exposure controls

### **Eye/face protection**



Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU)

### **Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (with touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable law and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material Tested: Dermatril (KCL 740/Aldrich Z677272, size M)

Splash Contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material Tested: Dermatril (KCL 740/Aldrich Z677272, size M)

Data Source: KCL GmgH, D-36124 Eichenzell, phone +49 90)6659 87300, e-mail sales@kcl.de, test

method EN374

If used in solution or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

### **Respiratory Protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# **9.1. Information on basic physical and chemical properties**Appearance Form: Liquid

Color: tan/purple No Data Available Odor Odor Threshold No Data Available Hq No Data Available Melting Point/Freezing Point No Data Available Initial Boiling Point No Data Available Flash Point No Data Available **Evaporation Rate** No Data Available Flammability (Solid, Gas) No Data Available Upper/Lower Flammability No Data Available

or explosive limits

Vapor Pressure No Data Available

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Vapor Density No Data Available Relative Density No Data Available

Water Solubility Soluble

Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Viscosity
No Data Available
Oxidizing Properties
No Data Available

#### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

## 10.1. Reactivity

No data available

### 10.2. Chemical stability

May darken on storage

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

Avoid exposure to moisture or light.

### 10.5. Incompatible materials

Materials To Avoid

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

### 10.6. Hazardous decomposition products

Other decomposition products - No data available

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity: No Data Available Acute Toxicity (Oral LD50) Mouse 330 mg/kg Skin Corrosion/Irritation: No Data Available **Human Skin Model Test** No Data Available Serious eye damage/irritation No Data Available Respiratory sensitization No Data Available Skin sensitization No Data Available Germ cell mutagenicity (InVitro) No Data Available Carcinogenicity No Data available

IARC: No component of this product 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 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 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 present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA

Reproductive Toxicity No Data available

Specific target organ toxicity:

Single Exposure No Data Available
Repeated Exposure No Data Available
Aspiration hazard: No Data Available

Additional Information RTECS: DV8753000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 32 mg/l - 24 h

### 12.2. Persistence and degradability

No data available

### 12.3. Bio accumulative potential

No data available

## 12.4. Mobility in soil

No data available

#### 12.5. Other adverse effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Disposal Methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **Contaminated Packaging**

Dispose of as unused product

## SECTION 14: TRANSPORTATION INFORMATION

### 14.1. UN number

Not applicable.

## 14.2. DOT (US)

Not dangerous good

## 14.3. Transport hazard class(es)

Not dangerous goods.

#### 14.4. IMDG

Not dangerous goods



#### 14.5. IATA

Not dangerous good

### SECTION 15: REGULATORY INFORMATION

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

#### **SARA 302 Component**

This material does not contain any chemical components with known CSA numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 302.

#### **SARA 312 Component**

This material does not contain any chemical components with known CSA numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 312.

#### Massachusetts, New Jersey, Pennsylvania Right to Know Components

Biphenyl-3-3',4-4'-tetrayltetraammonium tetrachloride CAS-No. 7411-49-6 Hydroxynaphthalene hydrocarbon CAS-No. 5111-66-0

### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Approved Code Of Practice

### SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity
Carc. Carcinogenicity
Eye Irrit. Eye irritation

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.
Muta. Germ cell mutagenicity

**HMIS Rating** 

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard 0

**NFPA Rating** 

Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Company shall not be held liable for any damage resulting from handling or from contact with the above product.



## Material Safety Data Sheet

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP02M-010 CP03M-010

Kit Component: HRP-Blue Buffer (1X)

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

Recommended use: Immunohistochemistry (IHC)

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

MANUFACTURER EMAIL ADDRESS:
Cell IDx, Inc. info@cellidx.com
6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

#### 1.4. Emergency tselephone number

9 am-5 pm PST, M-F 858.452.5800

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1B), H314 Serious eye Damage (Category 1), H318 Reproductive toxicity (Category 1B), H360

### 2.2. GHS label elements

Danger



Cause severe skin burns and eye damage

May damage fertility or an unborn child

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash hands thoroughly after handling

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF ON SKIN/Hair: Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.

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

#### 2.3. Other hazards which do not result in classification

None

### Substance/mixture: Mixture

There are no 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. Occupational exposure limits, if available, are listed in Section 8.



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

DescriptionCAS#EINECS#%Sodium dihydrogen citrate18996-35-5201-069-10.5-1

### SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled** 

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid), Ammonia

#### 5.3. Special advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.



### SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid inhalation of vapor or mist. For precautions, see section 2.2

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substance with occupational exposure limit values.

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3 Exposure controls

### Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (with touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable law and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Splash Contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material Tested: Dermatril (KCL 740/Aldrich Z677272, size M)

Data Source: KCL GmgH, D-36124 Eichenzell, phone +49 90)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

### **Respiratory Protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.



If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance Form: Liquid Color: Clear

Odor No Data Available
Odor Threshold No Data Available

pH 6.0

Melting Point/Freezing Point
Initial Boiling Point
Flash Point
Evaporation Rate
Flammability (Solid, Gas)
Upper/Lower Flammability
No Data Available

or explosive limits

Vapor Pressure No Data Available Vapor Density No Data Available

Relative Density 1.01 g/cm3 at 20 °C (68 °F)

Water Solubility
Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Viscosity
No Data Available
Explosive Properties
No Data Available
Oxidizing Properties
No Data Available

#### 9.2. Other information

None

### SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

Stable under recommended storage conditions

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Materials To Avoid

Acid, Acid anhydrides, Strong Oxidizing agents

#### 10.6. Hazardous decomposition products



Other decomposition products – No data available

In the event of fire: see Section 5

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Acute toxicity: No Data Available Inhalation: No Data Available Dermal: No Data Available Skin Corrosion/Irritation: No Data Available Serious eye damage/irritation No Data Available Respiratory sensitization No Data Available Skin sensitization No Data Available Germ cell mutagenicity (InVitro) No Data Available Carcinogenicity No Data available

IARC: No component of this product 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 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 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 present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA

Reproductive Toxicity No Data available

Specific target organ toxicity:

Single Exposure No Data Available Repeated Exposure No Data Available Aspiration hazard: No Data Available

Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 11.2. Information on the likely routes of exposure

#### Potential acute health effects

Eye Contact Not Available

InhalationNo known significant effects or critical hazardsSkin ContactNo known significant effects or critical hazardsIngestionNo known significant effects or critical hazards

### 11.3. Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact No specific data

Inhalation No known significant effects or critical hazards

Skin contact No specific data Ingestion No Specific Data

#### 11.4. Delayed and immediate effects and also chronic effects from short- and long-term exposure

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

Short term exposure Not available. Potential immediate effects Not available

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Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available. Potential delayed effects Not available.

Potential chronic health effects

General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. Developmental effects No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

#### 11.5. Numerical measure of toxicity (such as acute toxicity estimates)

Not available

### SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bio accumulative potential

No data available

#### 12.4. Mobility in soil

No data available

### 12.5. Other adverse effects

Not determined

### SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Disposal Methods** 

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **Contaminated Packaging**

Dispose of as unused product

### SECTION 14: TRANSPORTATION INFORMATION

14.1. UN number/UN Proper Shipping Name

Not applicable.

#### 14.2. DOT (US)

Not dangerous good

#### 14.3. Transport hazard class(es)

Not dangerous goods.

#### 14.4. IMDG



Not dangerous goods

#### 14.5. IATA

Not dangerous good

### SECTION 15: REGULATORY INFORMATION

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

### SARA 302 Component

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

### SARA 311/312 Component

Acute Health Hazard, Chronic Health Hazard

### Massachusetts, New Jersey, Pennsylvania Right to Know Components

Sodium dihydrogen citrate CAS-No. 18996-35-5

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16: OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Eye Dam. Serious eye damage H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eve damage.

H360 May damage fertility or the unborn child.

Repr. Reproductive toxicity

Skin Corr. Skin corrosion

**HMIS Rating** 

Health hazard: 1
Chronic Health Hazard: 0
Flammability: 0
Physical Hazard 0

**NFPA Rating** 

Health hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Company shall not be held liable for any damage resulting from handling or from contact with the above product.



### **MATERIAL SAFETY DATA SHEET**

### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP03M-010

Kit Components: Antibody Diluent

1.2: Product Uses

Immunohistochemistry. For Research Use Only. Not intended for human or animal diagnostic products.

1.3: Company/undertaking Identification

Cell IDx, Inc. 6197 Cornerstone C

6197 Cornerstone Court E, Ste 102 San Diego, CA 92121

858.452.5800

### Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

**GHS-US** classification

#### 2.2: Label Elements

GHS-US labeling No label applicable

#### 2.3: Other Hazards

No additional information available

### 2.4: Principal Routes of Exposure/Potential Health Effects

Eyes May cause irritation with susceptible persons
Skin May case skin irritation in susceptible persons

Inhalation May be harmful by inhalation Ingestion May be harmful if swallowed

## Section 3: Composition/information on ingredients

Chemical Name	CAS#	Percent
Proclin 150	10377-60-3	0.1%

### Section 4: First Aid Measures

Skin contact Immediately wash well with mild soap and copious amounts of

water. Remove any contaminating clothing. Flush skin with

additional water.

**Eye contact** Immediately flush eyes with copious amounts of water for at least

15 minutes. If symptoms persist, call a physician.

**Ingestion** Flush mouth with copious amounts of water. Do not swallow water.



**Inhalation** If inhaled, move victim to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of

material that caused reaction for use in determination of

appropriate treatment.

### Section 5: Firefighting measures

Suitable extinguishing media

Special protective equipment

for firefighters

Specific hazards arising

from the chemical

Not applicable, substance is non-flammable

Not applicable

Not applicable

### Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up

**Environmental precautions** 

Other precautions

Soak up with inert absorbent material.

No special environmental precautions required

Avoid contact and inhalation: do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing

before use.

### Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. No

special handling advice are necessary.

Storage 2-8 °C

## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

#### 8.2. Exposure controls

Appropriate engineering controls: None

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when handling

product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None

Environmental exposure controls: Maintain levels below Community environmental protection

thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### Section 9: Physical and chemical properties

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

Physical state: Liquid

Appearance: No information available Color: No information available

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Odor:
Odor threshold:
No data available
No data available
No data available
No data available
Melting point:
No data available
Freezing point:
No data available
Boiling point:
No data available
Flash point:
No data available
Relative evaporation rate (butylacetate=1):
No data available
Flammability (solid, gas):
Not flammable

Flammability (solid, gas): Not flammable Explosive limits: No data available Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: Water Soluble Partition coefficient: n-octanol/water: No data available Log Kow: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available

### Section 10: Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use.

Possibility of hazardous Hazardous reaction has not been reported

reactions

**Hazardous decomposition**None under normal use conditions.

**Products** 

**Polymerization** Hazardous polymerization does not occur.

Conditions to avoid

None under normal processing

## Section 11: Toxicological information

**Acute Toxicity** No toxicology information is available.

**Potential Health Effects** 

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

## Section 12: Ecological information

EcotoxicityUnknownMobilityUnknownBiodegradationUnknownBioaccumulationUnknown

## Section 13: Disposal considerations



#### 13.1 Waste treatment Recommendations

This material must be dispose of in accordance with all local, state, provincial and federal regulations. The generation of waste should be avoided or minimized wherever possible.

### Section 14: Transport information

Department of Transportation (DOT) Not regulated for transport.

Other information Special transport precautions In accordance with DOT

Not classified as dangerous in the meaning of transport regulations

No supplementary information available

Not applicable

## Section 15: Regulatory information

SARA: SARA 302 - No chemicals in this material are subject to the reporting requirements. SARA 313 - No chemicals in this material with known CAS #s is subject to the reporting requirements. SARA 311/312 Hazards - No SARA Hazards.

California Prop. 65 components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

### Section 16: Other information

Other information:	None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.



### **MATERIAL SAFETY DATA SHEET**

### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP03M-010

Kit Components: Peroxidase Block 2

1.2: Product Uses

Immunohistochemistry. For Research Use Only. Not intended for human or animal diagnostic products.

1.3: Company/undertaking Identification

Cell IDx, Inc.

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

858.452.5800

### Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

**GHS-US** classification

#### 2.2: Label Elements

GHS-US labeling No label applicable

#### 2.3: Other Hazards

Carcinogenic effects

Mutagenic effects

None
Reproductive toxicity

Sensitization

None
May cause fire or explosion is exposed to heat

### 2.4: Principal Routes of Exposure/Potential Health Effects

Eyes May cause irritation with susceptible persons

Can cause severe eye damage

Skin May case skin irritation in susceptible persons

Inhalation May be harmful by inhalation Ingestion May be harmful if swallowed

## Section 3: Composition/information on ingredients

Chemical Name	CAS#	Percent
Hydrogen Peroxide	7722-84-1	3%

### Section 4: First Aid Measures



Skin contact Immediately wash well with mild soap and copious amounts of

water. Remove any contaminating clothing. Flush skin with

additional water.

**Eye contact** Immediately flush eyes with copious amounts of water for at least

15 minutes. If symptoms persist, call a physician.

**Ingestion** Do not induce vomiting. Dilute with water milk and have exposed

individual drink sips of water.

**Inhalation** If inhaled, move victim to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of

material that caused reaction for use in determination of

appropriate treatment.

### Section 5: Firefighting measures

Suitable extinguishing media If in laboratory setting, follow fire suppression procedures. Use

appropriate fire suppression agents for adjacent combustible

materials or sources of ignition.

Special protective equipment

for firefighters

Do not attempt to take action without suitable protective equipment

Self-contained breathing apparatus and complete protective

clothing

Specific hazards arising

from the chemical

Combustion products may include carbon oxides or other toxic

vapors.

### Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up

Absorb spills of reagents with absorbent paper, taking care not to

spread the material. Clean spill area with water.

Other precautions Avoid contact and inhalation: do not get in eyes, on skin or

clothing. Do not pipet by mouth. Wash contaminated clothing

before use. Protect from heat.

## Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. Keep

from contact with oxidizing materials. Store in cool, dry place. Keep

away from heat.

Storage 2-8 °C

## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

#### 8.2. Exposure controls

Appropriate engineering controls: None

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when handling

product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None

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Environmental exposure controls: Maintain levels below Community environmental protection

thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

Remove, if any, all soiled and contaminated clothing.

### Section 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state: Liquid

Appearance: No information available Color: No information available

Odor:
Odor threshold:
Odor threshold:
PH:
No data available
No data available
No data available
Melting point:
No data available
Freezing point:
No data available
Boiling point:
No data available
Flash point:
No data available
Relative evaporation rate (butylacetate=1):
No data available

Flammability (solid, gas): Not flammable **Explosive limits:** No data available Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: Water Soluble Partition coefficient: n-octanol/water: No data available Log Kow: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available

## Section 10: Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid Strong acids and bases, oxidizing agents.

Possibility of hazardous Hazardous reaction has not been reported

reactions

**Hazardous decomposition** Nitrogen oxides, hydrogen gas, oxygen, hydrazoic acid,

carbon oxides.

**Products** 

**Polymerization** Hazardous polymerization does not occur.

Conditions to avoid None under normal processing

### Section 11: Toxicological information

**Acute Toxicity** No toxicology information is available.

**Potential Health Effects** 

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Eyes May cause eye irritation with susceptible persons. Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

### Section 12: Ecological information

EcotoxicityUnknownMobilityUnknownBiodegradationUnknownBioaccumulationUnknown

## Section 13: Disposal considerations

**13.1 Waste treatment** This material must be dispose of in accordance with all

**Recommendations** local, state, provincial and federal regulations. The generation of

waste should be avoided or minimized wherever possible.

### Section 14: Transport information

#### **IATA**

Proper shipping name Not classified as dangerous in the meaning of transport regulations

Hazard Class 5.1 Oxidizing substances

Subsidiary Class None
Packing Group None
UN-No None

## Section 15: Regulatory information

SARA: SARA 302 - No chemicals in this material are subject to the reporting requirements. SARA 313 - No chemicals in this material with known CAS #s is subject to the reporting requirements. SARA 311/312 Hazards - No SARA Hazards.

California Prop. 65 components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

### Section 16: Other information

Other information:	None.

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### **MATERIAL SAFETY DATA SHEET**

### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

CP03M-010

Kit Component: Cell IDx Rabbit Block

1.2: Product Uses Immunohistochemistry

1.3: Company/undertaking Identification

Cell IDx, Inc.

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

858.452.5800

### Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

HEALTH HAZARD: not hazardous

PHYSICAL HAZARDS: not hazardous

PRINICIPLE ROUTES OF EXPOSURE/

POTENTIAL HEALTH EFFECTS

Eyes: May cause eye irritation with susceptible persons. Skin: May cause skin irritation in susceptible persons.

Inhalation: May be harmful by inhalation. Ingestion: May be harmful by if swallowed.

2.2: Label Elements

Not Applicable

2.3: Other Hazards

Carcinogenic effects: None
Mutagenic effects: None
Reproductive toxicity: None
Sensitization: None

Target Organ Effects: No known effects under normal use conditions

### Section 3: Composition/information on ingredients

Chemical Name	CAS#	EC#	Percent
Proclin 150	10377-60-3	NA	0.1%

### Section 4: First Aid Measures



Skin contact Immediately wash well with mild soap and copious amounts of

water. Remove any contaminating clothing. Flush skin with

additional water.

Immediately flush eyes with copious amounts of water for at least Eye contact

15 minutes. If symptoms persist, call a physician.

Flush mouth with copious amounts of water. Do not swallow water. Ingestion Inhalation

If inhaled, move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of

material that caused reaction for use in determination of

appropriate treatment.

## Section 5: Firefighting measures

Suitable extinguishing media Special protective equipment

for firefighters

Specific hazards arising

from the chemical

Not applicable, non-flammable Not applicable, non-flammable

Not applicable

### Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up

**Environmental precautions** Other precautions

Soak up with inert absorbent material. Clean spill area with water No special environmental precautions required

Avoid contact and inhalation: do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing

before use.

## Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. Wash

hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good

ventilation in process area to prevent formation of vapor.

2-8 °C. Keep only in the original container in a cool, well-ventilated **Storage** 

place away from metals. Keep container closed when not in use

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

### 8.2. Exposure controls

Appropriate engineering controls: None Ventilation: None

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when handling

product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None Environmental exposure controls: None

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Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### Section 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state: Liquid

Appearance: No data available

Color: Colorless

Odor:
Odor threshold:
No data available
PH:
No data available
No data available
Melting point:
No data available
Freezing point:
No data available
Boiling point:
No data available
Flash point:
No data available
Relative evaporation rate (butylacetate=1):
No data available

Flammability (solid, gas): Not flammable **Explosive limits:** No data available Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: Water Soluble Specific gravity: No data available Partition coefficient: n-octanol/water: No data available Log Kow: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available

### Section 10: Stability and reactivity

**Stability** Stable under normal conditions

Materials to avoid No dangerous reaction known under conditions of normal use

Possibility of hazardous Unknown

reactions

Hazardous decomposition Not applicable

**Products** 

**Polymerization** Hazardous polymerization does not occur

Conditions to avoid Not applicable

### Section 11: Toxicological information

Acute Toxicity Unknown.

## Section 12: Ecological information

**Ecotoxicity** Unknown **Mobility** Unknown

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BiodegradationUnknownBioaccumulationUnknown

### Section 13: Disposal considerations

**13.1 Waste treatment** This material must be dispose of in accordance with all

**Recommendations** local, state, provincial and federal regulations. The generation of

waste should be avoided or minimized wherever possible.

### Section 14: Transport information

IATA

Proper shipping name: Not classified as dangerous in the meaning of transport regulations

Hazard Class:

Subsidiary Class:

Packing Group:

UN-No:

None

None

### Section 15: Regulatory information

SARA: SARA 302 - No chemicals in this material are subject to the reporting requirements. SARA 313 - No chemicals in this material with known CAS #s is subject to the reporting requirements. SARA 311/312 Hazards - No SARA Hazards.

California Prop. 65 components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

### Section 16: Other information

Other information:	None.

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### **MATERIAL SAFETY DATA SHEET**

### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010
CP02M-010
CP03M-010

Kit Components: Cell IDx HRP Arrest Solution Part A: Azide in MES

1.2: Product Uses

Immunohistochemistry. For Research Use Only. Not intended for human or animal diagnostic products.

1.3: Company/undertaking Identification

Cell IDx, Inc. 6197 Cornerstone Court E, Ste 102 San Diego, CA 92121

858.452.5800

### Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

**GHS-US Signal Word** 

Warning

**GHS-US** classification

Acute toxicity (Oral) - Category 2

Acute toxicity (Dermal)- Category 1 Hazardous to the aquatic environment

Acute Hazard Category 3

Hazardous to the aquatic environment

Chronic Hazard Category 3

H312 Harmful in contact with skin

H402 Harmful to aquatic life

H412 Harmful to aquatic life with

long lasting effects

#### 2.2: Label Elements

H312 - Harmful in contact with skin

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

### 2.3: Other Hazards

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: wash with plenty of water

P312 – Call a poison center or doctor if you feel unwell

P362+P364 – Take off contaminated clothing and wash it before reuse

P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national, and/or international regulations

## Section 3: Composition/information on ingredients

Chemical Name	CAS#	EC#	Percent
Sodium Azide	26628-22-8	247-852-1	0.656%



### Section 4: First Aid Measures

**Skin contact** Immediately wash well with mild soap and copious amounts of

water. Remove any contaminating clothing. Flush skin with

additional water.

**Eye contact** Immediately flush eyes with copious amounts of water for at least

15 minutes. If symptoms persist, call a physician.

**Ingestion** Flush mouth with copious amounts of water.

**Inhalation** If inhaled, move victim to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of

material that caused reaction for use in determination of

appropriate treatment.

## Section 5: Firefighting measures

Suitable extinguishing media Special protective equipment

for firefighters

Water spray, dry powder, foam, carbon dioxide

Do not attempt to take action without suitable protective equipment

Self-contained breathing apparatus and complete protective

clothing

Specific hazards arising

from the chemical

Not applicable

### Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up

**Environmental precautions** 

Other precautions

Soak up with inert absorbent material.

No special environmental precautions required

Avoid contact and inhalation: do not get in eyes, on skin or

clothing. Do not pipet by mouth. Wash contaminated clothing

before use.

### Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. Wash

hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good

ventilation in process area to prevent formation of vapor.

**Storage** 2-8 °C. Keep only in the original container in a cool, well-ventilated

place away from metals. Keep container closed when not in use

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash stations should be available in vicinity

Ventilation: Ensure good ventilation of the workstation

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses or goggles are recommended when handling

product.

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Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None

Environmental exposure controls: USA- ACGIH- Occupational Exposure limits:

ACGIH Ceiling (mg/m3) – 0.29 ACGIH Ceiling (ppm)- 0.11

USA- NIOSH- Occupational Exposure Limits: NIOSH REL Ceiling (mg/m3) – 0.3 NIOSH REL Ceiling (ppm)- 0.1

Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### Section 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state: Liquid

Appearance: No information available

Color: Colorless

Odor:
Odor threshold:
PH:
No data available
Reezing point:
No data available

Boiling point: 100 °C

Flash point: No data available Relative evaporation rate (butylacetate=1): No data available

Flammability (solid, gas): Not flammable **Explosive limits:** No data available Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: Water Soluble

Specific gravity: 1 g/L

Partition coefficient: n-octanol/water:
Log Kow:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Viscosity, kinematic:
Viscosity, dynamic:
No data available

## Section 10: Stability and reactivity

**Stability** May form explosive compounds (higher concentrations).

Materials to avoid Strong acids, strong oxidizers, copper lead

Possibility of hazardous Unknown

reactions

Hazardous decomposition Nitrogen oxides.

**Products** 

Polymerization Unknown.
Conditions to avoid Unknown



## Section 11: Toxicological information

Acute Toxicity Unknown.

**Potential Health Effects** 

Eyes May cause eye irritation with susceptible persons. Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

### Section 12: Ecological information

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

LC50 Fish 1 - 0.8 mg/L

MobilityUnknownBiodegradationUnknownBioaccumulationUnknown

### Section 13: Disposal considerations

**13.1 Waste treatment** This material must be dispose of in accordance with all

**Recommendations** local, state, provincial and federal regulations. The generation of

waste should be avoided or minimized wherever possible.

### Section 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport. Not classified as dangerous in the meaning of transport

regulations

Other information No supplementary information available

Special transport precautions Not applicable

## Section 15: Regulatory information

SARA 313 – No chemicals in this material with known CAS #s are subject to the reporting requirements.

SARA 311/312 Hazards - No SARA Hazards.

SARA: SARA 302 - Threshold Planning Quantity (TPQ)- 500 lbs.

CERCLA RQ - 1000 lbs.

RQ (reportable quantity, section 304 of EPA's List of Lists) – 1000 lbs.

California Prop. 65 components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

### Section 16: Other information

Other information:	None.

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### **MATERIAL SAFETY DATA SHEET**

### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010 CP02M-010

Kit Components: Cell IDx HRP Arrest Solution Part B: 30% H<sub>2</sub>O<sub>2</sub>

CP03M-010

1.2: Product Uses

Immunohistochemistry. For Research Use Only. Not intended for human or animal diagnostic products.

1.3: Company/undertaking Identification

Cell IDx, Inc. 6197 Cornerstone Court E, Ste 102 San Diego, CA 92121

858.452.5800

### Section 2: Hazardous Identification

#### 2.1: Classification of the substance or material

**GHS-US Signal Word** 

### Warning

**GHS-US** classification

Acute toxicity (Oral) - Category 2

Acute toxicity (Dermal)- Category 1 Hazardous to the aquatic environment

Acute Hazard Category 3

Hazardous to the aquatic environment

Chronic Hazard Category 3

H312 Harmful in contact with skin

H402 Harmful to aquatic life

H412 Harmful to aquatic life with

long lasting effects

#### 2.2: Label Elements

H312 - Harmful in contact with skin

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

### 2.3: Other Hazards

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: wash with plenty of water

P312 - Call a poison center or doctor if you feel unwell

P362+P364 – Take off contaminated clothing and wash it before reuse

P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national, and/or international regulations

## Section 3: Composition/information on ingredients

Chemical Name	CAS#	EC#	Percent



Hydrogen Peroxide	7722-84-1	NA	30%

### Section 4: First Aid Measures

Skin contact Immediately wash well with mild soap and copious amounts of

water. Remove any contaminating clothing. Flush skin with

additional water.

Eye contact Immediately flush eyes with copious amounts of water for at least

15 minutes. If symptoms persist, call a physician.

Ingestion Flush mouth with copious amounts of water. Do not swallow water.

Inhalation Flush mouth with copious amounts of water. Do not swallow water.

If inhaled, move victim to fresh air, If not breathing, give artificial

If inhaled, move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of

material that caused reaction for use in determination of

appropriate treatment.

## Section 5: Firefighting measures

Suitable extinguishing media Special protective equipment

for firefighters

Water spray, dry powder, foam, carbon dioxide

Do not attempt to take action without suitable protective equipment

Self-contained breathing apparatus and complete protective

clothing

Specific hazards arising

from the chemical

Not applicable

### Section 6: Accidental release measures

Personal precautions Always wear recommended Personal Protective Equipment. Use

personal protection equipment.

Methods for cleaning up

**Environmental precautions** 

Other precautions

Soak up with inert absorbent material.

No special environmental precautions required

Avoid contact and inhalation: do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing

before use.

## Section 7: Handling and Storage

Handling Always wear recommended Personal Protective Equipment. Wash

hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good

ventilation in process area to prevent formation of vapor.

**Storage** 2-8 °C. Keep only in the original container in a cool, well-ventilated

place away from metals. Keep container closed when not in use

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available.

8.2. Exposure controls

Appropriate engineering controls:

Ventilation:

Emergency eye wash stations should be available in vicinity

Ensure good ventilation of the workstation

Hand protection: Wear suitable gloves.

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Eye protection: Safety glasses or goggles are recommended when handling

product.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None

Environmental exposure controls: USA- ACGIH- Occupational Exposure limits:

ACGIH Ceiling (mg/m3) – 0.29 ACGIH Ceiling (ppm)- 0.11

USA- NIOSH- Occupational Exposure Limits: NIOSH REL Ceiling (mg/m3) – 0.3 NIOSH REL Ceiling (ppm)- 0.1

Other information: Do not eat, smoke or drink where material is handled, processed

or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### Section 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state: Liquid

Appearance: No information available

Color: Colorless

Odor:
Odor threshold:
PH:
No data available
No data available
No data available
Melting point:
No data available
Freezing point:
No data available
No data available

Boiling point: 100 °C

Flash point: No data available Relative evaporation rate (butylacetate=1): No data available

Flammability (solid, gas): Not flammable **Explosive limits:** No data available Explosive properties: No data available Oxidizing properties: No data available Vapor pressure: No data available Relative density: No data available Relative vapor density at 20 °C: No data available Solubility: Water Soluble

Specific gravity: 1 g/L

Partition coefficient: n-octanol/water:
Log Kow:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Viscosity, kinematic:
Viscosity, dynamic:
No data available

## Section 10: Stability and reactivity

**Stability** May form explosive compounds (higher concentrations).

Materials to avoid Strong acids, strong oxidizers, copper lead

Possibility of hazardous Unknown

reactions

Hazardous decomposition Nitrogen oxides.

**Products** 

Polymerization Unknown.

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Conditions to avoid Unknown

## Section 11: Toxicological information

Acute Toxicity Unknown.

**Potential Health Effects** 

Eyes May cause eye irritation with susceptible persons. Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation. Ingestion May be harmful if swallowed.

### Section 12: Ecological information

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

LC50 Fish 1 – 0.8 mg/L

MobilityUnknownBiodegradationUnknownBioaccumulationUnknown

### Section 13: Disposal considerations

**13.1 Waste treatment** This material must be dispose of in accordance with all

**Recommendations** local, state, provincial and federal regulations. The generation of

waste should be avoided or minimized wherever possible.

### Section 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport. Not classified as dangerous in the meaning of transport regulations

Other information No supplementary information available

Special transport precautions Not applicable

## Section 15: Regulatory information

SARA 313 – No chemicals in this material with known CAS #s are subject to the reporting requirements.

SARA 311/312 Hazards - No SARA Hazards.

SARA: SARA 302 - Threshold Planning Quantity (TPQ)- 500 lbs.

CERCLA RQ - 1000 lbs.

RQ (reportable quantity, section 304 of EPA's List of Lists) – 1000 lbs.

California Prop. 65 components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

### Section 16: Other information

Other information: None.

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## **Material Safety Data Sheet**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Manual Chromogenic Multiplex IHC Kit

Catalog No.: CP01M-010

CP02M-010 CP03M-010

Kit Components: Purple Hematoxylin Counterstain

Blue Hematoxylin Counterstain

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

Recommended use: Histology Stain, Counterstain for immunohistochemistry

1.3. Details of the supplier of the safety data sheet

MANUFACTURER EMAIL ADDRESS: Cell IDx, Inc. info@cellidx.com

6197 Cornerstone Court E, Ste 102

San Diego, CA 92121

1.4. Emergency telephone number

9 am-5 pm PST, M-F 858.452.5800

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

Carc. 1A H350. May cause cancer.

#### 2.2. GHS label elements

#### Danger - GHS08



Hazard-determining components of labeling:

ethanol

Hazard statements

May cause cancer.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards which do not result in classification

None

#### 2.4. Classification System

NFPA ratings (scale 0 - 4)

Health



Fire 1
Reactivity 0

HMIS-ratings (scale 0 - 4)

Health 1
Fire 1
Reactivity 0

Other hazards

Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization Mixtures

Description Mixture of the substances listed below with non-hazardous additions.

Dangerous components

 Cas #
 Description
 %

 57-55-6
 propane-1,2-diol
 10-25

 64-17-5
 ethanol
 10-25

 64-19-7
 acetic acid
 ≥0.1-≤2.5

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician if symptoms occur after washing.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if any discomfort continues.

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

No further relevant information available.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No specific first aid measures noted

### SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials

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

No further relevant information available



### 5.3. Special advice for firefighters

No special measures required

### SECTION 6: ACCIDENTAL RELEASE MEASURES

# **6.1. Personal precautions, protective equipment and emergency procedures** Not required

#### 6.2. Environmental precautions

Dilute with plenty of water

Do not allow to enter sewers/surface or ground water

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

#### 6.4. Reference to other sections

No dangerous substances are released

#### 6.5. Protective Action Criteria for Chemicals.

Cas #	Description	%
PAC-1:	2000	,,
57-55-6	propane-1,2-diol	30 mg/m <sup>3</sup>
64-17-5	ethanol	1,800 ppm
64-19-7	acetic acid	5 ppm
7681-55-2	sodium iodate	0.83 mg/m <sup>3</sup>
PAC-2:		· ·
57-55-6	propane-1,2-diol	1,300 mg/m <sup>3</sup>
64-17-5	ethanol	3300* ppm
64-19-7	acetic acid	35 ppm
7681-55-2	sodium iodate	9.1 mg/m <sup>3</sup>
PAC-3:		· ·
57-55-6	propane-1,2-diol	7,900 mg/m <sup>3</sup>
64-17-5	ethanol	15000* ppm
64-19-7	acetic acid	250 ppm
7681-55-2	sodium iodate	55 mg/m <sup>3</sup>

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace

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

No special requirements

### 7.3. Specific end use(s)

Not required

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

### Components with limited values that require monitoring at the workplace

57-55-6 propane-1,2-diol



WEEL Long-term value: 10 mg/m<sup>3</sup>

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm
REL Long-term value: 1900 mg/m³, 1000 ppm
TLV Short-term value: 1880 mg/m³, 1000 ppm

64-19-7 acetic acid

PEL Long-term value: 25 mg/m³, 10 ppm
REL Short-term value: 37 mg/m³, 15 ppm
Long-term value: 25 mg/m³, 10 ppm
TLV Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

#### 8.2. Exposure controls

### General protective and hygienic measures:

Keep away from foodstuffs, beverages, and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

#### **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:

**Appearance** 

Tightly sealed goggles

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Color: Purple
Odor
Like alcohol
Odor threshold:
pH-value:
Not determined.
Not determined.

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Undetermined.
Not applicable.
Flammability (solid, gaseous):
Ignition temperature:
Decomposition temperature:
Not determined.

Auto igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Form: Liquid

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**Explosion limits:** 

Lower: 2.6 Vol % Upper: 15 Vol %

Vapor pressure at 20 °C (68 °F): 59 hPa (44.3 mm Hg)

Density: Not determined.
Relative density: Not determined.
Vapor density: Not determined.
Evaporation rate: Not determined.

Solubility in / Miscibility with

Water: Fully miscible.
Partition coefficient (n-octanol/water): Not determined.
Dynamic: Not determined.
Kinematic: Not determined.

Other information: No further relevant information available.

#### 9.2. Other information

None

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under normal temperature conditions

### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No further relevant information available

#### 10.5. Incompatible materials

No further relevant information available

#### 10.6. Hazardous decomposition products

None under normal conditions

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity:

Primary irritant effect:

On the skin: No irritant effect.
On the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

64-17-5 ethanol



### NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

### SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

No further relevant information available

### 12.2. Persistence and degradability

No further relevant information available

### 12.3. Bio accumulative potential

No further relevant information available

#### 12.4. Mobility in soil

No further relevant information available

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

Not applicable

#### 12.6. Other adverse effects

Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system

### SECTION 13: DISPOSAL CONSIDERATIONS

#### **General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product

### 13.1. Waste treatment methods

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations Recommended cleansing agent: Water, if necessary with cleansing agent

### SECTION 14: TRANSPORTATION INFORMATION

### 14.1. UN number/UN Proper Shipping Name

Not applicable.

### 14.2. DOT (US)

Not dangerous good

#### 14.3. Transport hazard class(es)

Not dangerous goods.

### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutants Issued 2/22/2022 Page 70 of 72



No

### 14.6. Special precautions for user

None

# **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable

### SECTION 15: REGULATORY INFORMATION

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

Section 355 (extremely hazardous substances):  None of the ingredients are listed.  Section 313 (Specific toxic chemical listings):  None of the ingredients is listed.  TSCA (Toxic Substances Control Act):  57-55-6 propane-1,2-diol  64-17-5 ethanol  64-19-7 acetic acid  517-28-2 hematoxylin  7681-55- sodium iodate  7732-18- water, distilled, conductivity or of similar purity	IVI
Section 313 (Specific toxic chemical listings):  None of the ingredients is listed.  TSCA (Toxic Substances Control Act):  57-55-6 propane-1,2-diol  64-17-5 ethanol  64-19-7 acetic acid  517-28-2 hematoxylin  7681-55- sodium iodate	Section 355 (extremely hazardous substances):
None of the ingredients is listed.  TSCA (Toxic Substances Control Act):  57-55-6 propane-1,2-diol  64-17-5 ethanol  64-19-7 acetic acid  517-28-2 hematoxylin  7681-55- sodium iodate	None of the ingredients are listed.
TSCA (Toxic Substances Control Act):  57-55-6 propane-1,2-diol  64-17-5 ethanol  64-19-7 acetic acid  517-28-2 hematoxylin  7681-55- sodium iodate	Section 313 (Specific toxic chemical listings):
57-55-6 propane-1,2-diol 64-17-5 ethanol 64-19-7 acetic acid 517-28-2 hematoxylin 7681-55- sodium iodate	None of the ingredients is listed.
64-17-5 ethanol 64-19-7 acetic acid 517-28-2 hematoxylin 7681-55- sodium iodate	TSCA (Toxic Substances Control Act):
64-19-7 acetic acid 517-28-2 hematoxylin 7681-55- sodium iodate	57-55-6 propane-1,2-diol
517-28-2 hematoxylin 7681-55- sodium iodate	64-17-5 ethanol
7681-55- sodium iodate	64-19-7 acetic acid
	517-28-2 hematoxylin
7732-18- water, distilled, conductivity or of similar purity	7681-55- sodium iodate
	7732-18- water, distilled, conductivity or of similar purity

### TSCA new (21st Century Act) (Substances not listed)

### Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

64-17-5 ethanol

### Carcinogenic categories

-	(Environmental	D	A\
$-\nu$	<i>i</i> Environmental	Protection	AMENCIA

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

### SECTION 16: OTHER INFORMATION

#### **Disclaimer**

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, Issued 2/22/2022

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applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.