



Chromogenic Multiplex IHC Kit for BOND RX

MATERIAL SAFETY DATA SHEET

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

1.1: Product Identifier

Product Name: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-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: Principle 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%
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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.
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	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific hazards arising from the chemical	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 advices 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
Appearance:	Clear
Color:	Colorless
Odour:	No data available
Odour threshold:	No data available
pH:	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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour density at 20 °C:	No data available
Solubility:	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 reactions	Hazardous reaction has not been reported
Hazardous decomposition 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.
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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 effects	None.
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Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Section 12: Ecological information

Ecotoxicity	Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Material does not bioaccumulate.

Section 13: Disposal considerations

13.1 Waste treatment Recommendations	This material must be disposed of in accordance with all local, state, provincial and federal regulations. The generation of waste should be avoided or minimized wherever possible.
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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 substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Chromogenic Multiplex IHC Kit for Bond RX

Catalog No.: CP01A-010

CP02A-010

CP03A-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 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: Principle Routes of Exposure/Potential Health Effects

Eyes May cause 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 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
Inhalation**

Flush mouth with copious amounts of water. Do not swallow water.
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	Not applicable, substance is non-flammable
Special protective equipment for firefighters	Not applicable
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	Soak up with inert absorbent material.
Environmental precautions	No special environmental precautions required
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.

Section 7: Handling and Storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advices 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
Odour:	No data available
Odour threshold:	No data available
pH:	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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour 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 reactions	Hazardous reaction has not been reported
Hazardous decomposition 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.
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	Unknown
Mobility	Unknown



Biodegradation
Bioaccumulation

Unknown
Unknown

Section 13: Disposal considerations

13.1 Waste treatment

Recommendations

This material must be disposed 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 are 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: Chromogenic Multiplex IHC Kit for Bond RX

Catalog No.: CP01A-010

CP02A-010

CP03A-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 None

Mutagenic effects None

Reproductive toxicity None

Sensitization None

May cause fire or explosion if exposed to heat

2.4: Principle Routes of Exposure/Potential Health Effects

Eyes May cause irritation with susceptible persons

Can cause severe eye damage

Skin May cause 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
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
Odour:	No data available
Odour threshold:	No data available
pH:	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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour 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 reactions	Hazardous reaction has not been reported
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.
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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	Unknown
Mobility	Unknown
Biodegradation	Unknown
Bioaccumulation	Unknown

Section 13: Disposal considerations

13.1 Waste treatment Recommendations	This material must be disposed of in accordance with all local, state, provincial and federal regulations. The generation of waste should be avoided or minimized wherever possible.
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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 are 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: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-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

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 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.
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	Not applicable, non-flammable
Special protective equipment for firefighters	Not applicable, non-flammable
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	Soak up with inert absorbent material. Clean spill area with water
Environmental precautions	No special environmental precautions required
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.

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:	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



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
Odour:	No data available
Odour threshold:	No data available
pH:	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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour 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 reactions	Unknown
Hazardous decomposition Products	Not applicable
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
Biodegradation	Unknown
Bioaccumulation	Unknown

Section 13: Disposal considerations

13.1 Waste treatment Recommendations	This material must be disposed of in accordance with all local, state, provincial and federal regulations. The generation of waste should be avoided or minimized wherever possible.
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Section 14: Transport information

IATA	
Proper shipping name:	Not classified as dangerous in the meaning of transport regulations
Hazard Class:	None
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: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-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	H312 Harmful in contact with skin
Hazardous to the aquatic environment	H402 Harmful to aquatic life
Acute Hazard Category 3	
Hazardous to the aquatic environment	H412 Harmful to aquatic life with
Chronic Hazard Category 3	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
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Sodium Azide	26628-22-8	247-852-1	0.656%
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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	Water spray, dry powder, foam, carbon dioxide
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	Not applicable

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
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.

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.



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
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing 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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour density at 20 °C:	No data available
Solubility:	Water Soluble
Specific gravity:	1 g/L
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	May form explosive compounds (higher concentrations).
Materials to avoid	Strong acids, strong oxidizers, copper lead
Possibility of hazardous reactions	Unknown
Hazardous decomposition Products	Nitrogen oxides.
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

Mobility

Unknown

Biodegradation

Unknown

Bioaccumulation

Unknown

Section 13: Disposal considerations

13.1 Waste treatment

Recommendations

This material must be disposed 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)

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.

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: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-010
Kit Components: Cell IDx HRP Arrest Solution Part B: 30% H₂O₂

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	H312 Harmful in contact with skin
Hazardous to the aquatic environment	H402 Harmful to aquatic life
Acute Hazard Category 3	
Hazardous to the aquatic environment	H412 Harmful to aquatic life with
Chronic Hazard Category 3	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	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	Water spray, dry powder, foam, carbon dioxide
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	Not applicable

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
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.

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.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	None
Environmental exposure controls:	USA- ACGIH- Occupational Exposure limits: ACGIH Ceiling (mg/m ³) – 0.29 ACGIH Ceiling (ppm)- 0.11 USA- NIOSH- Occupational Exposure Limits: NIOSH REL Ceiling (mg/m ³) – 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
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point:	No data available
Freezing 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
Oxidising properties:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Relative vapour density at 20 °C:	No data available
Solubility:	Water Soluble
Specific gravity:	1 g/L
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	May form explosive compounds (higher concentrations).
Materials to avoid	Strong acids, strong oxidizers, copper lead
Possibility of hazardous reactions	Unknown



Hazardous decomposition Products	Nitrogen oxides.
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
Mobility	Unknown
Biodegradation	Unknown
Bioaccumulation	Unknown

Section 13: Disposal considerations

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

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 MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product Name: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-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 telephone 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

Description	CAS#	EINECS#	%
Hydrogen Peroxide Solution	7722-84-1	231-765-0	<1%

Classification (EC 1272/2008)	Classification (67/548/EEC)
Ox. Liq. 1 - H271	R5
Acute Tox. 4 - H302	O;R8



Acute Tox. 4 – H332
Skin Corr. 1A – H314
STOT Single 3 H335

C;R35
Xn;R20/22

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

Classification (EC 1272/2008) Classification (67/548/EEC)
Eye Irrit. 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/m ³
	UK - 15 min. STEL: 2.8 mg/m ³

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.

Eye 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)	~ 0°C
Relative density	~1 g/ml
Vapor density (air=1)	Not determined
Vapor pressure	Not determined
Evaporation rate	Not determined
Viscosity	Not determined
Solubility Value (G/100G H ₂ O@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 Test Not determined

Serious eye damage/irritation Not determined

Respiratory sensitization Not determined

Skin sensitization Not determined

Germ cell mutagenicity (In Vitro) Not determined

Carcinogenicity Not determined

Reproductive Toxicity – Fertility Not determined

Specific target organ toxicity

 Single exposure Not determined

 Repeated exposure Not determined

 Aspiration hazard 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	Not Classified
Rail Transportation Notes	Not Classified
Sea Transport Notes	Not Classified
Air Transport Notes	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.

SDS No. Revision No. 1

Date 11/08/2012

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

Product Name: Chromogenic Multiplex IHC Kit for Bond RX
Catalog No.: CP01A-010
CP02A-010
CP03A-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
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 (HCl). 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/m ³	UK - 15 min. STEL: 125 mg/m ³

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.

Eye 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
	Colour: Light brown/purple
Odour	Odorless
Solubility	Soluble in water.
Initial boiling point and boiling range	<100 @ 760 mm Hg
Melting point (°C)	~ 0°C
Relative density	~1 g/ml
Vapour density (air=1)	No Data Available
Vapour 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

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 Not determined

Serious eye damage/irritation: Not determined

Respiratory sensitization Not determined

Skin sensitization Not determined

Germ cell mutagenicity (InVitro) Not determined

Carcinogenicity Not determined

Reproductive Toxicity – Fertility 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. Bioaccumulative potential

Bioaccumulative potential

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

Partition coefficient

Not determined

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

Not classified

Rail Transport Notes

Not classified

Sea Transport Notes

Not classified

Air Transport Notes

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

Issued 05/31/2023



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 (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.

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Date: 11/08/2012

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.