

# Ready Set Go, Biotin/Streptavidin-HRP/Blue Chromogen Antibody Labeling and Detection Kit MATERIAL SAFETY DATA SHEET

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

## 1.1: Product Identifier

Product Name: Ready Set Go, Biotin/Streptavidin-HRP/Blue Chromogen Antibody

**Labeling and Detection Kit** 

Catalog No.: RSGOB-002
Kit Components : Biotin-labeling Kit

Chemical Name	
Component A: Biotin-PEG4-NHS ester	
Component B: Reaction buffer	
Component C: Quench buffer	

#### 1.2: Product Uses

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

May cause eye irritation with susceptible persons.

# Section 3: Composition/information on ingredients

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Biotin-PEG4-NHS ester	459426-22-3		Oily solid	Moderate
Component B: Reaction buffer			Liquid	High
Component C: Quench buffer			Liquid	High

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 Special protective equipment

for firefighters

Specific hazards arising

from the chemical

Water spray. Carbon dioxide (CO2). 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 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: Lyophilized powder
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: 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.

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.

Issued 10/05/2021 Page 3 of 24 www.cellidx.com



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.



## **MATERIAL SAFETY DATA SHEET**

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

1.1: Product Identifier

Product Name: Ready Set Go, Biotin/Streptavidin-HRP/Blue Chromogen Antibody

Labeling and Detection Kit

Catalog No.: RSGOB-002 Kit Component: StAv-HRP

1.2: Product Uses

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 info@cellidx.com 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

Chemical Name	CAS number	EINECS- number	Weight
StAv-HRP conjugate	None		100%

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 Special protective equipment

for firefighters

Specific hazards arising

from the chemical

Water spray. Carbon dioxide (CO2). 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. Soak up with inert absorbent material.

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:

Lyophilized powder

Issued 10/05/2021 Page 6 of 24 www.cellidx.com



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: 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 No data available Viscosity: 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.

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.

**Mobility** No information available.

Issued 10/05/2021 Page 7 of 24 www.cellidx.com



**Biodegradation** Inherently biodegradable.

**Bioaccumulation** Material does not bioaccumulate.

# 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

Strict information

Special transport precautions

In accordance with DOT

No supplementary information available

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.

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: Ready Set Go, Biotin/Streptavidin-HRP/Blue Chromogen

**Antibody Labeling and Detection Kit** 

Catalog No.: RSGOB-002

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: info@cellidx.com

Cell IDx, Inc.

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

## 2.2. GHS label elements Danger





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 <a href="mailto:sales@kcl.de">sales@kcl.de</a>, test method EN374

If used in solution or mixe 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
Odor No Data Available
Odor Threshold No Data Available
pH No Data Available
Melting Point/Freezing Point No Data Available
Initial Boiling Point No Data Available

Issued 10/05/2021 Page 12 of 24 <u>www.cellidx.com</u>



Flash Point

Evaporation Rate

Flammability (Solid, Gas)

Upper/Lower Flammability

No Data Available

No Data Available

No Data Available

No Data Available

or explosive limits

Vapour Pressure

Vapour Density

Relative Density

No Data Available

No Data Available

No Data Available

Water Solubility Soluble

Partition Coefficient

Auto-ignition Temperature

Decomposition Temperature

Viscosity

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) Skin Corrosion/Irritation:**Mouse 330 mg/kg
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

No data available

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 bur n 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.

Issued 10/05/2021 Page 15 of 24 www.cellidx.com



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 substance/mixture and of the company/undertaking

1.1: Product Identifier

Product Name: Ready Set Go. Biotin/Streptavidin-HRP/Blue Chromogen Antibody

**Labeling and Detection Kit** 

Catalog No.: RSGOB-002

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

No Data Available

Evaporation Rate

No Data Available

Flammability (Solid, Gas)

Upper/Lower Flammability

No Data Available

No Data Available

or explosive limits

Vapour Pressure No Data Available Vapour Density No Data Available

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

Water Solubility
Partition Coefficient
No Data Available
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

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

## 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

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.
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 bur n 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 eye damage.

Issued 10/05/2021 Page 23 of 24 www.cellidx.com



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 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.