

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product: **Mouse/Rabbit ImmunoDetector Biotin Link**
Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label
Mouse/Rabbit ImmunoDetector Biotin Link and AP Label

Catalog Numbers:

CAT. #	PRESENTATION	VOLUME
BSB 0001L	Mouse/Rabbit ImmunoDetector Biotin Link	15.0 ml
BSB 0003L	Mouse/Rabbit ImmunoDetector Biotin Link	50.0 ml
BSB 0005L	Mouse/Rabbit ImmunoDetector Biotin Link	100.0 ml
BSB 0007L	Mouse/Rabbit ImmunoDetector Biotin Link	200.0 ml
BSB 0009L	Mouse/Rabbit ImmunoDetector Biotin Link	1000.0 ml
BSB 0001LH	Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label	15.0 ml
BSB 0003LH	Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label	50.0 ml
BSB 0005LH	Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label	100.0 ml
BSB 0007LH	Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label	200.0 ml
BSB 0009LH	Mouse/Rabbit ImmunoDetector Biotin Link and HRP Label	1000.0 ml
BSB 0082LA	Mouse/Rabbit ImmunoDetector Biotin Link and AP Label	15.0 ml
BSB 0083LA	Mouse/Rabbit ImmunoDetector Biotin Link and AP Label	50.0 ml
BSB 0084LA	Mouse/Rabbit ImmunoDetector Biotin Link and AP Label	10.0 ml
BSB 0085LA	Mouse/Rabbit ImmunoDetector Biotin Link and AP Label	200.0 ml
BSB 0086LA	Mouse/Rabbit ImmunoDetector Biotin Link and AP Label	1000.0 ml

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

Recommended use:

Immunohistochemistry (IHC) reagent for detection of antigens in cells and FFPE or frozen tissues.
 Not intended for use in humans or animals.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Bio SB, Inc.
Street Address	5385 Hollister Ave. Building 8, Suite #108
City, State, Zip, Country	Santa Barbara, CA USA 93111, USA
Technical Phone:	+1-805-692 2768

Mouse/Rabbit ImmunoDetector Biotin Link

Safety Data Sheet

Fax:

+1-805-692 2769

E-mail:

sales@biosb.com

1.4 Emergency telephone number

Telephone number:

+1-805-692 2768 (9 AM - 5 PM PST, M-F)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture

According to OSHA Hazard Communication Standard (29 CFR 1910.1200) this mixture is classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients.

Classification (EC 1272/2008): The product is classified in accordance with Regulation (EC) No 1272/2008 (GHS/CLP).

Classification system: The classification was made according to the latest editions of international substances lists and expanded upon from company and literature data.

2.2 Label elements

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



Hazard Pictograms:

	GHS07	
Signal Word:	Danger	
Hazard Statements:	H302	Harmful if swallowed
	H315	Causes skin irritation
Precautionary Statements		
Prevention	P201	Obtain special instructions before use
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264	Wash skin thoroughly after handling.
	P273	Avoid release to the environment.
Storage:		
Disposal:	P405	Store locked up
	P501	Dispose of contents and container in accordance with all local, regional, national and international regulations

Classification system:

NFPA Scale: 0 - 4			
HMIS (U.S.A.) Scale: 0 - 4	HEALTH		1
	FLAMMABILITY		0

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

	PHYSICAL HAZARD		0
	PERSONAL PROTECTION		B

2.3 Other information

Hazards not otherwise classified: Hazards not otherwise classified (HNOC) or not covered by GHS- None known

The Full Text for all Hazard Statements are displayed in Section 16. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and do not require report in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Description: Mixture preserved with Bronidox L as an anti-microbial.

Component	Chemical Name	Conc. %	CAS#	EC#	Classification (pure ingredient)	Classification kit
Bronidox	5-Bromo-5-Nitro-1,3-dioxane	<0.1 %	30007-47-7	250-001-7	Acute toxicity, Oral (Category 4), H302, Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - repeated exposure (Category 2), H373 Short-term (acute) aquatic hazard (Category 3), H402 Long-term (chronic) aquatic hazard (Category 3), H412	Not subject to classification in this product mixture and concentration

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and do not require report in this section. Occupational exposure limits, if available, are listed in Section 8.

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.

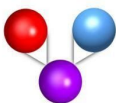
Inhalation: In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

Ingestion: Immediately rinse your 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.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. Generally, the product does not irritate the skin.

Eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. 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.

Self-protection of the first aider: Use personal protective equipment as required.



Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

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

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

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

If seeking medical attention show Safety Data Sheet to physician. Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media:

Fire can be extinguished using: Water spray, alcohol resistance foam, carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards:

No data available

5.3. Advice for firefighters

Protective equipment for fire-fighters:

Self-contained NIOSH/MSHA (approved or equivalent) breathing apparatus and full protective chemical resistant clothing, gloves, and eye protection must be worn. In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.4 Further Information:

Water jets can be used successfully to cool containers exposed to the fire and disperse fumes

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Minimize direct contact with skin or eyes and prevent inhalation. If in liquid form, blot with absorbing material, otherwise sweep up. Place collected material in a plastic bag and hold it for appropriate waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Keep material away from heat, flame, ignition sources, and reactive materials

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Absorb spillage with suitable inert absorbent material. Collect spillage in suitable waste containers, seal securely and deliver for disposal according to local regulations.

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

Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid formation of dust and aerosols. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

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

7.3. Specific end use(s)

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

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters: Bronidox <0.1%

8.2. Exposure controls

Protective equipment:	Impermeable gloves and Chemical splash safety glasses when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Process conditions:	Provide Safety shower and eye bath. Mechanical exhaust required.
Engineering measures:	Provide adequate ventilation. Mechanical exhaust is required. Observe occupational exposure limits and minimize the risk of inhalation of spray.
Respiratory equipment:	No specific recommendation made, but if risk assessment shows air purifying respirators are appropriate, use masks with approved filter. Use only devices approved by competent authorities like NIOSH (USA) and CEN (EU). Respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection:	Use suitable chemical resistant protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the glove's supplier, who can inform about the breakthrough time of the glove material. Frequent change is advisable. Latex or Nitrile gloves; thickness 0.11 mm, ASTM F1671, DIN EN 374 or equivalent; AQL 1.5.
Eye protection:	If risk of splashing, wear safety goggles or face shield. DIN 166 or equivalent.
Skin protection:	Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse. Wash thoroughly after handling.
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:	Liquid
Color:	yellow
Odor:	none
Odor Threshold:	Not determined
pH Value:	Not determined
Initial boiling point and boiling range:	Not determined
Melting point (°C):	Not determined
Flash Point:	Not determined
Evaporation rate	Not determined
Flammability Limit –(solid/gas):	Not determined
Upper /Lower Flammability Limit (%):	Not determined
Vapor density (air=1):	Not determined
Vapor pressure:	Not determined
Relative density:	Not determined
Solubility Value (G/100G H ₂ O@20°C)	Not determined
Partition Coefficient (N-Octanol/Water):	Not determined
Auto Ignition Temperature (°C):	Not determined

Mouse/Rabbit ImmunoDetector Biotin Link

Safety Data Sheet

Decomposition temperature (°C):	Not determined
Explosive properties:	Not determined
Oxidizing properties:	Does not meet the criteria for oxidizing
9.2. Other information:	No further relevant information available

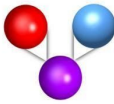
SECTION 10: STABILITY AND REACTIVITY

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:	Dangerous reactions are not to be expected for these concentrations when handling the product according to its intended use.
10.4. Conditions to avoid:	Avoid exposure to temperature fluctuations or direct sunlight.
10.5. Incompatible materials:	No relevant information available for these concentrations.
10.6. Hazardous decomposition products:	In case of fire of large quantities: See Section 5.
Additional information:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Toxicological information	No information available.
Acute toxicity:	Quantitative data about toxicity of this product not available
Dermal:	Not determined
Skin Corrosion/Irritation:	Not determined
Human Skin Model Test:	Not determined
Serious eye damage/irritation:	Not determined
Respiratory sensitization:	Not determined
Skin sensitization:	Not determined
Germ cell mutagenicity (InVitro):	No data available
Carcinogenicity:	No relevant information available for this mixture at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.
Reproductive Toxicity – Fertility:	No data available
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:	Eye and nasal irritation, irritation of the throat, slight cough, headache; no significant pathological changes anticipated



Santa Barbara, CA USA 93111, USA

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

Route of entry: Vapor

Toxicological information on ingredients

No known or suspected mutagen. No known or suspected carcinogen for humans.
Inhalation or dermal contact during production. Ingestion.
Skin and/or eye contact.
Not determined.

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Toxicological information:

Acute toxicity:

No data available on the ecotoxicity of this product.

12.2. Persistence and degradability

Degradability:

No data available 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.
 Not determined.

Partition coefficient:

12.4. Mobility in soil:

Mobility:

Not determined.

12.5. Results of PBT and vPvB assessment

This mixture is not expected to contain any substances assessed to be a 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

Waste Disposal Methods: Dispose of waste and residues in accordance with local authority requirements.

Product/Packaging Disposal: Decisions on the appropriate waste management method must be in line with local, regional and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

General:

This substance is considered to be non-hazardous for transport (including air transport). The product is not covered by international regulation on the transport of dangerous goods [IMDG, IATA, ADR/RID, DOT (US)].

14.1. UN number

ADR ADN, IMDG, IATA

Not applicable

14.2. UN proper shipping name

ADR, ADN, IMDG, IATA

Not applicable

14.3. Transport hazard class(es) - if shipped as a part of a kit : Not regulated

14.4. Packing group

ADR, ADN, IMDG, IATA

Not regulated

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

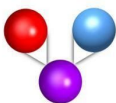
14.6. Special precautions for user

Not applicable.

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

Not applicable

Transport/Additional information: Not classified as dangerous in the meaning of transport regulations as issued in the latest version.



Santa Barbara, CA USA 93111, USA

Mouse/Rabbit ImmunoDetector Biotin Link
Safety Data Sheet

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

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

SECTION 15: REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008 See Section 2.

Directive 2012/18/EU: Named dangerous substances - ANNEX I None classified.

REGULATION (EC) No 1907/2006 REACH ANNEX XVII Conditions of restriction: None classified.

Approved Code of Practice: Classification and Labeling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes: Workplace Exposure Limits EH40.

SARA 302 /304 Components

Classification: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 302/304.

SARA 311/ 312 Components

Classification: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 311/312.

SARA 313 Components

Classification: 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 355 (extremely hazardous substances): None of the ingredients in this mixture are listed.

Toxic substances control Act; TSCA 8 (a) CDR Exempt/Partial Exemption:

Clean Water Act (CWA (33 U.S.C. § 1321)) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

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

Massachusetts: The following components are listed: No components are subject to the Massachusetts Right to Know Act

New Jersey: The following components are listed: 5-Bromo-5-nitro-1,3-dioxane CAS-No. 30007-47-7

Pennsylvania: The following components are listed: 5-Bromo-5-nitro-1,3-dioxane CAS-No. 30007-47-7

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, labeling and packaging of substances and mixtures, 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 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.

Mouse/Rabbit ImmunoDetector Biotin Link Safety Data Sheet

15.2. Chemical Safety Assessment No chemical safety assessment has been carried out by Bio SB.

SECTION 16: OTHER INFORMATION

Full text of the classifications, including the indication of danger, and the hazard statements, if mentioned in section 2 or 3:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.

Abbreviations and Acronyms:

OSHA (USA)	Occupational Safety and Health Administration
NFPA	National Fire Protection Association
H.M.I.S (USA)	Hazardous Material Identification System
SARA	Superfund Amendments and Reauthorization Act
IMDG	International Maritime Organization
IATA	International Air Transportation Association
ADR/RID	European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)
DOT (US)].	U.S Department of Transportation
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
PBT:	Persistent, Bioaccumulative and Toxic
SVHC:	Substances of Very High Concern
vPvB:	very Persistent and very Bioaccumulative

General information:	Only trained personnel should use this material
SDS No.: 0014	Revision B
Date:	04/17/2020

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 him or herself as to the suitability of such information for their own particular use.

Bio SB shall not be held responsible for any damage resulting from the use of the above product or the information contained in this safety data sheet.

Bio SB, Inc. • 5385 Hollister Avenue, Building 8, Suite #108 Santa Barbara, CA 93111, USA
Tel. (805) 692-2768 • Tel. (800) 561-1145 • Fax. (805) 692-2769
• E-mail: sales@biosb.com • Website: www.biosb.com