

AEC HRP Red Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade Name: PolyDetector Liquid AEC HRP Red Ready-To-Use
Mouse/Rabbit PolyDetector AEC HRP Red
Mouse/Rabbit PolyDetector Plus AEC HRP Red
Mouse/Rabbit ImmunoDetector AEC HRP Red

Registration Numbers: BSB 0002, BSB 0002S, BSB 0004, BSB 0006, BSB 0008, BSB 0010, BSB 0011, BSB 0012, BSB 0013, BSB 0014, BSB 0061, BSB 0061A, BSB 0202, BSB 0202S, BSB 0204, BSB 0206, BSB 0208, BSB 0208A, BSB 0258, BSB 0258S, BSB 0260, BSB 0262, BSB 0264, BSB 0266

This product is a mixture (see chapter 3). Registration number(s) is/are not available for these substances as the substance(s) or its/their use are exempted from registration according to Article 2 REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require registration, or the registration is envisaged for a later registration deadline.

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

Relevant identified uses:	For in vitro diagnostics.
Uses advised against:	No further relevant information available.
Sector of Use:	SU20 Health services
Product category:	PC21 Laboratory chemicals
Process category:	PROC15 Use as laboratory reagent
Application of the substance / the mixture:	Immunochemical reagent for detection / auxiliary reagent for in-vitro diagnosis.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Bio SB, Inc.
Street Address	69 Santa Felicia Dr.
City, State, Zip, Country	Santa Barbara, CA 93117, USA

1.4 Emergency telephone number

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

SECTION 2: HAZARDS IDENTIFICATION

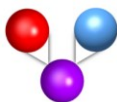
2.1 Classification of the mixture

The product is classified and labeled in accordance with Regulation (EC) No 1272/2008 (GHS/CLP). Classification according to Regulation (EC) No 1272/2008 Carc.1B ; H350 May cause cancer

2.2 Label elements

Labelling of packages where the contents do not exceed 125 ml Hazard pictograms

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



AEC HRP Red Safety Data Sheet



Hazard Pictograms: GHS08
 Hazard-determining components of labelling: 9-ethylcarbazol-3-amine

Signal Word: Danger
Hazard Statements:
 H350 May cause cancer

Precautionary Statements:
 Restricted to professional users.

Prevention:
 P201 Obtain special instructions before use.
 P308+P313 IF exposed or concerned: Get medical advice/attention.

Storage:
 P405 Store locked up

Disposal:
 P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other information

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

Description: Immunochemical reagent / auxiliary reagent. Mixture of the substances listed below plus non-hazardous additions.

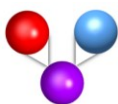
Component	Chemical Name	% Conc.	CAS#	EC#	Index No.	Classification
C ₁₄ H ₁₄ N ₂	9-ethylcarbazol-3-amine	≥0.1-<1%	132-32-1	205-057-7	612-280-00-7	Carc. 1B, H350

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 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: In case of inhalation of spray mist: Move person into fresh air and keep at rest.



AEC HRP Red Safety Data Sheet

	Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!
Ingestion:	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.
Skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
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. Remove contact lenses if present and easy to do. Continue rinsing. Consult ophthalmologist and /or obtain medical attention and bring these instructions.
Self-protection of the first aider:	Use personal protective equipment as required.

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

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: Product itself does not burn. For this mixture no limitations of extinguishing agents are given. Use firefighting measures that suit the environment.

5.2. Special hazards arising from the substance or mixture

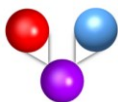
Specific hazards: If heated and in case of fire irritating vapors may be formed: Carbon monoxide (CO), Carbon Dioxide (CO₂) Nitrogen Oxides (NO_x).

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 of large quantities. use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures



AEC HRP Red Safety Data Sheet

Advice for non-emergency personnel: Use chemical resistant personal protective equipment, gloves and eye protection. Avoid reagent contact with eyes and skin. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. 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 liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Collect spillage in suitable waste containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid contact with skin and eyes. Wash thoroughly after handling.
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. Information about protection against explosions and fires: No special measures required if handled correctly.

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 (TRGS 510): Please see the respective national guidelines.

Store at +2 °C to +8 °C.

Information about storage in one common storage facility: For this mixture no further information available.

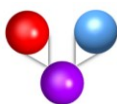
Further information about storage conditions:

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Protect from the effects of light.

The indications are valid for the whole package.

Storage class Please see the respective national guidelines.



AEC HRP Red Safety Data Sheet

7.3. Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see Section 7.

8.1. Control parameters

Components with workplace control parameters:

Components with critical values that require monitoring at the workplace:

DNELs For these concentrations no relevant information available.

PNECs For these concentrations no relevant information available.

Additional information: The official lists that were valid during the compilation were used as basis.

8.2. Exposure controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See Section 7.

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 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. Nitrile gloves are recommended but be aware that the liquid may penetrate the gloves. Not suitable for permanent contact. 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.
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Skin protection:	Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse.
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:	brown, purple or clear
Odor:	Odorless
Odor Threshold:	Not determined
pH Value:	No data available
Initial boiling point and boiling range:	No data available for this concentration range

AEC HRP Red Safety Data Sheet

Melting point (°C):	No data available
Flash Point:	Not determined
Evaporation rate	Not determined
Flammability Limit –(solid/gas):	Mixture is not flammable
Upper /Lower Flammability Limit (%):	Not applicable
Vapor density (air=1):	Not determined
Vapor pressure:	Not determined
Relative density:	Not determined
Solubility:	Soluble in water
Solubility Value (G/100G H ₂ O@20°C):	Miscible
Partition Coefficient (N-Octanol/Water):	No data available
Auto Ignition Temperature (°C):	No data available
Decomposition temperature (°C):	No data available
Explosive properties:	No further relevant information available
Oxidizing properties:	No data available
Solvent content:	
Organic solvents:	0 %
Water:	≥99 %
Solids content:	≥0.1 - <1 %

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 May darken on storage. 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 light.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products In case of fire of large quantities: See Section 5.
 Additional information: No further relevant information available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information	No information available
Acute toxicity:	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Slight irritations possible.
Human Skin Model Test:	No data available

AEC HRP Red Safety Data Sheet

Serious eye damage/irritation:	Slight irritations possible.
Respiratory sensitization:	Based on available data, the classification criteria are not met.
Skin sensitization:	No sensitizing effect known.
Germ cell mutagenicity (InVitro):	No data available
Carcinogenicity:	No data available
Reproductive Toxicity – Fertility:	No data available
Specific target organ toxicity - single exposure:	
STOT - Single exposure:	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	
STOT - Repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	There are no data on the ecotoxicity of this product.
12.1. Toxicity	
12.2. Persistence and degradability	
Degradability:	Aquatic toxicity: No further relevant information available. no data available on the degradability of this product.
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:	No relevant information available.
Additional ecological information:	
General notes:	Water danger class 3 (Self-assessment): extremely hazardous for water. Do not let enter drains.

12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances assessed to be a PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

AEC HRP Red Safety Data Sheet

12.6. Other adverse effects: SVHC not applicable

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.
 Uncleaned Packaging's: Recommendation: Uncleaned packaging's have to be disposed of in the same manner as the product residues.

SECTION 14: TRANSPORTATION INFORMATION

General: Not dangerous goods. The product is not covered by international regulation on the transport of dangerous goods [IMDG, IATA, ADR/RID, DOT (US)].
 Road Transport Notes: Not Classified.
 Rail Transport Notes: Not classified.
 Sea Transport Notes: Not classified.
 Air Transport Notes: Not classified.

14.1. UN number

ADR ADN, IMDG, IATA -

14.2. UN proper shipping name

ADR, ADN, IMDG, IATA -

14.3. Transport hazard class(es)

ADR, ADN, IMDG, IATA -
 Class -

14.4. Packing group

ADR, ADN, IMDG, IATA Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant: No

14.6. Special precautions for user

Not applicable.

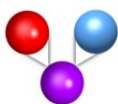
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

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

SECTION 15: REGULATORY INFORMATION

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



AEC HRP Red Safety Data Sheet

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

Directive 2012/18/EU: Named dangerous substances - ANNEX I Contains none of the listed substances.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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 Components

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.

SARA 313 Components

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 312.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

5-Bromo-5-nitro-1,3-dioxane CAS-No.30007-47-7

New Jersey Right To Know Components

5-Bromo-5-nitro-1,3-dioxane CAS-No.30007-47-7

Toxic substances control Act; TSCA

All of the components in this mixture are listed.

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.

EU Legislation

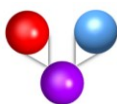
Regulation (EU) No 453/2010 of 20 May 2010 Annex II and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 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.

Right to Know Components

None of the components in this mixture are listed.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out by Bio SB.



AEC HRP Red Safety Data Sheet

SECTION 16: OTHER INFORMATION

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

Hazard Statements In Full for H code(s) and R Phrase(s) mentioned in section 3.

H350 May cause cancer

General information: Only trained personnel should use this material.

Date:	SDS No.:	Revision	Reason
02/25/2019	SDS 0013	A	Initial Release
07/29/2019	SDS 0013	B	Renamed document. Added AEC HRP Red Detection kits

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. • 69 Santa Felicia Dr., Santa Barbara, CA 93117, USA
Tel. (805) 692-2768 • Tel. (800) 561-1145 • Fax. (805) 692-2769
• E-mail: sales@biosb.com • Website: www.biosb.com