



SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : **Epinephrine**

Product Number : REF **101311**

Brand : Bio/Data Corporation

CAS-No. : 51-43-4

EC No. : 200-098-7

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

IVD **For in vitro diagnostic use; professional laboratory use by qualified personnel only**

Laboratory chemicals. Reagent for platelet aggregation tests.

1.3 Details of the supplier of the safety data sheet:

Company : Bio/Data Corporation
155 Gibraltar Road
Horsham, PA 19044
UNITED STATES

Telephone: +1 215 441-4000

Fax: +1 215 443-8820

Email: customer.service@biodatacorp.com

Web Site: www.biodatacorp.com

1.4 Emergency telephone

Emergency Phone #: Follow laboratory blood/ infectious hazard protocol
+1 215 441-4000 (0830 – 1630)

An ISO 13485 Registered Company

155 Gibraltar Road, Horsham, PA 19044 U.S.A.
Worldwide: (215) 441-4000 U.S.A.: (800) 257-3282 Fax Worldwide: (215) 443-8820
www.biodatacorp.com e-mail: customer.service@biodatacorp.com

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture:**

This product does not meet the criteria for classification in accordance with regulation No. 1272/2008 EC.

2.2 Label Elements:

None

Signal words: not required.

Hazard statements: Not required.

2.3 Other Hazards:

There is no additional hazard information available. This product does not contain any substances or components in the amount of 0.1% or higher that are classified as persistent, bioaccumulating or toxic PBT.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

Synonyms: Epinephrine, Adrenaline,
(-) Adreniline, L-Epinephrine,
L-Adrenalin, (R)-(-)-3,4-Dihydroxy-a-(methyl amino
methyl) benzyl alcohol

Molecular weight: 333.29

CAS-No.: 51-43-4

EC-No.: 200-098-7

3.2 Mixtures

Chemical characterization:

Description:

Component	Identifier	Classification	Concentration
(-)-Epinephrine-(+)-bitartrate	Chemical Formula: C ₉ H ₁₃ NO ₃ Molecular Weight: 333.29 CAS No.: 51-43-4 EC No.: 200-098-7	H-302 H318 H301 +H331	0.02%
Physiologic Saline (0.85%)	Chemical Formula: ClNa Molecular Weight: 58.44g/mol CAS No.: 7647-14-5 EC No.: 231-598-3	Not Hazardous	99.0%

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures



- General:** Do not leave unattended. Consult a physician. Show this safety data sheet to the doctor in attendance.
- After inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- After eye contact:** Wash thoroughly eyes with plenty of water for at least 15 minutes. Consult a physician.
- After skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

After swallowing: 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:

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 any immediate medical attention and special treatment needed:

Increased platelet aggregation may occur after contact with wounds or intrusion into the blood system.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable 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 (NO_x), Sulfur oxides, Sodium oxides.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

5.4 Further information:

No further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. 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:

Avoid dust formation. Avoid breathing vapors, mist or gas. Keep away from drains or other water courses. For personal protection see section 8.

6.3 Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in a suitable, closed containers for disposal in accordance with national and local regulations.

6.4 Reference to other sections:

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Use disposable gloves. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

Store in accordance with information listed on the product insert.

Storage conditions:

Recommended temperature: store at 2-8 ° C

Sensitive to light, air and moisture. Never allow product to get in contact with water during storage. Do not store near acids. Keep away from food and drinks.

7.3 Specific end use(s):

For in-vitro diagnostic use only by qualified laboratory personnel only following the instructions for use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

8.1 Control parametersIngredients with workplace control parameters:

It doesn't contain substances with known occupational exposure limit value.

8.2 Exposure controls:Appropriate engineering controls:

Restricted to professional users. Follow Good Laboratory Procedures (GLP). Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment:*Eye/face protection:*

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 (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection:

Wash and dry hands after work and before breaks. Use protective clothes in accordance with applicable local workplace rules and laboratory policies.

Respiratory protection:

Respiratory protection is usually not necessary. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES9.1 Information on basic physical and chemical properties:

a)	Appearance Form	:	Lyophilized Powder Color: White
b)	Odor	:	No Data Available
c)	Odor Threshold	:	No Data Available
d)	pH	:	~7.8
e)	Melting point / freezing point	:	No Data Available
f)	Initial boiling point and boiling range	:	No Data Available No Data Available
g)	Flash point	:	No Data Available
h)	Evaporation rate	:	No Data Available
i)	Flammability (solid, gas)	:	No Data Available
j)	Upper/Lower flammability or explosive limits	:	Not Explosive
k)	Vapor pressure	:	No Data Available
l)	Vapor density	:	No Data Available
m)	Relative density	:	No Data Available
n)	Water solubility	:	Soluble
o)	Partition coefficient - n-octanol/water	:	No Data Available
p)	Autoignition temperature	:	Not Combustible
q)	Decomposition temperature	:	No Data Available
r)	Viscosity	:	No Data Available
s)	Explosive properties	:	No Data Available
t)	Oxidizing properties	:	No Data Available

9.2 Other safety information:

No further relevant data or information available.

SECTION 10: STABILITY AND REACTIVITY10.1 Reactivity:

Stable under specified storage and usage conditions. No further relevant information available.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No Data Available

10.4 Conditions to avoid:

Exposure to air, moisture, and heat.

10.5 Incompatible materials:

Strong basic, acid, or oxidizing compounds, different metals. Not to be expected for intended use.

10.6 Hazardous decomposition products:

Other decomposition products - no data available.

In the event of fire: see section 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION11.1 Information on toxicological effects:

<i>Acute Toxicity</i>	:	Not classified
<i>Skin corrosion/irritation</i>	:	Not classified
<i>Serious eye damage/eye irritation</i>	:	Not classified
<i>Respiratory or skin sensitization</i>	:	Not classified

<i>Summary of evaluation of the CMR properties</i>	:	Not classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.
<i>Specific target organ toxicity - single exposition</i>	:	Not classified
<i>Specific target organ toxicity - repeated exposition</i>	:	Not classified
<i>Aspiration hazard</i>	:	Not classified

Symptoms related to the physical, chemical and toxicological characteristics if swallowed:

No data available

If in eyes slightly irritant, but not relevant for classification.

If inhaled slightly irritant, but not relevant for classification.

If on skin slightly irritant, but not relevant for classification.

11.2 Additional Information: No Data Available

SECTION 12: ECOLOGICAL INFORMATION

12.1	<u>Toxicity</u>	:	No further relevant information available.
12.2	<u>Persistence and degradability</u>	:	No further relevant information available.
12.3	<u>Bio accumulative potential</u>	:	No further relevant information available.
12.4	<u>Mobility in soil</u>	:	No further relevant information available.
12.5	<u>Results of PBT and vPvB assessment</u>	:	PBT: Not applicable. vPvB: Not applicable.
12.6	<u>Other adverse effects</u>	:	No further relevant information available.
12.7	<u>Other Information</u>	:	Do not dispose of the product unchanged in the environment

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods***Product*

This product and its container must be treated as hazardous waste in compliance with local and national rules in a suitable and tightly closed waste containers. Pay attention to corrosive effects. Product residue and uncleaned container Treat like product. Cleaned packages May add to general or industrial waste Recommended cleaning agent Water without any additives.

SECTION 14: TRANSPORT INFORMATION

- | | | |
|------|--|---|
| 14.1 | <u>UN number:</u> | ADR/RID: - IMDG: - IATA: - |
| 14.2 | <u>UN proper shipping name:</u> | ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
US DOT: Not dangerous goods
IATA: Not dangerous goods |
| 14.3 | <u>Transport hazard class(es):</u> | ADR/RID: - IMDG: - IATA: - |
| 14.4 | <u>Packaging group:</u> | ADR/RID: - IMDG: - IATA: - |
| 14.5 | <u>Environmental hazards:</u> | ADR/RID: no IMDG Marine pollutant: no IATA: no |
| 14.6 | <u>Special precautions for user:</u> | No Data Available |
| 14.7 | Transport in bulk according to annex II of MARPOL 73/78 and the IBC-Code | Not applicable, product is not intended to be transported in bulk. |
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SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2008.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
No data available
- 15.2 Chemical Safety Assessment:
For this product a chemical safety assessment was not carried out
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SECTION 16: OTHER INFORMATION

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

H302	Harmful if swallowed.
H318	Causes serious damage to eyes Acute tox. Acute toxicity
H301+H331	Toxic if swallowed or if inhaled
H310	Fatal in contact with skin. Eye dam. serious damage to eyes
EUH031	Contact with acids liberates toxic gas

Testo integrale delle frasi R citate nei Capitoli 2 e 3

T	Toxic
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
Xn	Harmful
R22	Harmful if swallowed.
R31	In contact with acids liberates toxic gas
R41	Causes serious damage to eyes

Restrictions on use: For professional laboratory use by qualified personnel only.

Further information:

Preparation Date: April 1, 2023
Revision Level and Date: Revision A, February 1, 2024

Abbreviations and Acronyms:

SDS:	Safety Data Sheet
PBT:	Persistence, Bioaccumulation, Toxicity
vPvB:	Very persistent and very bioaccumulative
STOT:	specific target organ toxicity
SCBA:	Self-contained breathing apparatus
ADR:	Agreement concerning the carriage of dangerous goods by road
RID	Regulation concerning the international carriage of dangerous goods by rail
IMDG	International Maritime Dangerous Goods code
IATA	International air transport organization
DOT	US Department of Transportation
ANSI	American National Standards Institute
OSHA	Occupational Safety & Health Administration (US)

Information related to the Regulation EC/1272/2008

This product is intended for **IN VITRO diagnostic use only**. NOT FOR INJECTION OR INGESTION. The information herein is believed to be correct as of the date hereof and excludes any guarantee related with the final use given to the product, being the recipient the last responsible for observing the local laws applicable in each case.
