

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

1.1 Product identifier

Product name: **Zeocin[®] (solution)**

Catalog code: ant-zn-05, ant-zn-1, ant-zn-5, ant-zn-5b

CAS number: 11006-33-0

Zeocin[®] is a trademark of InvivoGen registered with the United States Patent and Trademark Office.

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

Identified use: Laboratory research. Only for professional use.

Uses advised against: Not for diagnostic, therapeutic, or household use.

1.3 Details of the supplier of the safety data sheet

Company: InvivoGen US, 10515 Vista Sorrento Parkway
San Diego, California 92121, USA
(+1) 888 457 5873

InvivoGen Europe, 5 rue Jean Rodier
31400 Toulouse, France
+33 (0) 5 62 71 69 39

InvivoGen Asia, Unit 307, 3F,
8W Phase 2 Hong Kong Science Park,
Pak Shek Kok, Hong Kong
+852 3622 3480

1.4 Emergency telephone number: ORFILA (INRS): +33 (0)1 45 42 59 59

Section 2 – Hazards identification

2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS

Acute toxicity, Oral (Category 4), H302
Germ cell mutagenicity (Category 2), H341

2.2 Label elements according to Regulation (EC) No 1272/2008 [CLP] and GHS

Pictogram



Signal word Warning

Hazard statements

H302 Harmful if swallowed.
H341 Suspected of causing genetic defects.

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/ container to an approved waste disposal plant.


2.3 Other hazards
Endocrine Disruptor

To our knowledge, the substance or mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

PBT and vPvB substance

To our knowledge, the substance or mixture does not contain any substances >0.1% that meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII.

Section 3 – Composition/information on ingredients
3.2 Mixtures

Name	CAS Number	Classification according to Regulation (EC) No 1272/2008 [CLP] and GHS	Pictogram	Concentration	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Phleomycin D1 formulation	11006-33-0	Acute Tox. 4; Muta. 2; H302, H341. For full H statements see section 16.		10%	-

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: Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash skin 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 ingested: 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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 – Firefighting measures
5.1 Extinguishing media

Suitable extinguishing media: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable extinguishing media: None identified.

5.2 Special hazards arising from the substance or mixture

No information available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection". Ventilate spillage area.

6.1.2. For emergency responders

Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection". Evacuate unnecessary personnel. Avoid direct contact with the spilled substance. Ensure adequate ventilation, especially in confined areas.

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 according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

Section 7 – Handling and storage**7.1 Precautions for safe handling**

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

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2-8°C or -20°C.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure controls/personal protection**8.1 Control parameters****8.1.1 National occupational exposure and biological limit values**

No information available

8.1.2 Recommended monitoring procedures

No information available

8.1.3 Air contaminants formed

No information available

8.1.4 DNEL and PNEC

No information available

8.1.5 Control banding

No information available

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

General industrial hygiene practice.

8.2.2 Individual protection measures, such as personal protective equipment

Eye and 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.

Respiratory protection

Respiratory protection is not required for normal conditions of use. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No information available

8.2.3 Environmental exposure controls

Do not let product enter drains.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Blue

Odor/Odor threshold: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

Lower and upper explosion limit: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity: No data available

Solubility: Completely miscible in water

Partition coefficient n-octanol/water (log value): No data available

Vapor pressure: No data available

Density and/or relative density: No data available

Relative vapor density: No data available

Particle characteristics: No data available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No data available

9.2.1 Other safety characteristics

No data available

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: No data available

10.6 Hazardous decomposition products: No data available

Section 11 – Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Oral LD50: No data available

Inhalation LC50: No data available

Dermal LD50: No data available

Other information on acute toxicity: No data available

Skin corrosion/irritation: No data available**Serious eye damage/irritation:** No data available**Respiratory or skin sensitization:** No data available**Germ cell mutagenicity:** No data available**Carcinogenicity:** No data available**Reproductive toxicity:** No data available**STOT-single exposure:** No data available**STOT-repeated exposure:** No data available**Aspiration hazard:** No data available

11.2 Information on other hazards

Endocrine disrupting properties: No data available**Other information:** No data available

Section 12 – Ecological information

12.1 Toxicity: No data available**12.2 Persistence and degradability:** No data available**12.3 Bioaccumulative potential:** No data available**12.4 Mobility in soil:** No data available**12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.**12.6 Endocrine disrupting properties:** No data available**12.7 Other adverse effects:** No data available

Section 13 – Disposal considerations

13.1 Waste treatment methods

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.**Contaminated Packaging:** Dispose of as unused product.

Section 14 – Transport information

14.1 UN number

ADR/RID: -

DOT (US): -

IMDG: -

IATA: -

14.2 UN proper shipping name

not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

DOT (US): -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

DOT (US): -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no DOT (US): no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

14.7 Maritime transport in bulk according to IMO instruments

not applicable

Section 15 – Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) including the amendment to Annex II by Regulation (EU) 2020/878.

15.2 Chemical safety assessment

no data available

Section 16 – Other information

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

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects.

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.