

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H340	May cause genetic defects
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
CODE	PRECAUTIONARY STATEMENT
P201	Obtain special instructions before use
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+352	IF ON SKIN: Wash with soap and water
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Bleomycin Sulfate
CAS number	9041-93-4
EC number	232-925-2
Concentration / purity	~100.0%
Classification according to Regulation (EC) No 1272/2008	Skin ir. 2- H315 Sens. skin- H317 Eye ir. 2- H319 STOT SE3- H335 Muta. 1B- H340 Carc. 2- H351 Repr. 1B- H360 Lact.- H362
Hazard statements	H315, H317, H319, H335, H340, H351, H360, H362
Acute toxicity estimate (ATE)	Not reported
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing; give oxygen or artificial respiration if necessary.
Skin contact	Take off immediately all contaminated clothing and wash immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water, remove contact lenses if present and easy to do, and continue rinsing.
Ingestion	Rinse mouth out with water; do not induce vomiting.
Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.	

4.2 Most important symptoms and effects, both acute and delayed

Inhalation may cause irritation, headache; skin contact may cause moderate irritation, itching; eye contact may cause irritation, redness, stinging; ingestion may cause digestive tract irritation, abdominal pain, nausea; chronic effects include genetic defects, cancer, and reproductive toxicity.

4.3 Indication of any immediate medical attention and special treatment needed

Get immediate medical advice/attention.
Treat symptomatically.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, carbon dioxide, water spray, sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Combustible.
Nature of decomposition unknown.

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers; do not enter fire area without proper protective equipment, including respiratory protection. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear recommended personal protective equipment; evacuate unnecessary personnel; avoid dust formation; eliminate all sources of ignition.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Sweep or shovel into suitable containers and keep in a closed container for disposal.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Work under hood. Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature 2 to 8 °C

Conditions for safe storage (incompatibilities) Keep in original container in a cool, well-ventilated place away from heat sources, direct sunlight, and strong oxidizing agents.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) Not reported

DNEC/PNEC data DNEL/DMEL:
Not reported

PNEC
Not reported

8.2 Exposure controls

Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Gloves: Nitrile Rubber, 0.11mm (480 mins).
Respiratory protection	Self-contained breathing apparatus Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
Other protection	Protective clothing, long sleeved.
Environmental exposure controls	Avoid release to the environment.

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	Colourless to pale yellow DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	200 - 204 °C (BP SDS) DERIVED FROM: LITERATURE
Boiling point	No data available
Flammability	Non flammable. DERIVED FROM: LITERATURE
Lower and upper explosion limit	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	4.5 - 6.0 DERIVED FROM: LITERATURE
Acidity	Base DERIVED FROM: LITERATURE
Kinematic viscosity	No data available
Solubility	Soluble in water DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density (g/mL)	Not applicable
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

Non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Protect from sunlight, heat, hot surfaces, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Strong oxidizers. Strong bases.

10.6 Hazardous decomposition products

See section 5

SECTION 11

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

Acute toxicity (LD50 / LC50)	Not classified.
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	Causes serious eye irritation
Respiratory / skin sensitisation	May cause sensitisation by skin contact
Carcinogenicity	May cause genetic defects, suspected of causing cancer, suspected of damaging fertility or the unborn child.
Mutagenicity	May cause genetic defects.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT (single / repeated exposure)	Not classified.
Aspiration hazard	Material is a solid.

11.2 Information on other hazards

Material is not considered an endocrine disruptor.

SECTION 12

Ecological information**12.1 Toxicity**

Not classified.

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

Does not meet PBT or vPvB criteria.

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations**13.1 Waste treatment methods**

Dispose of in accordance with local/national regulations

SECTION 14

Transport information**14.1 UN number or ID number**

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6Special precautions for user

Special precautions for user	Not applicable
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Transport category	Not applicable
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Tunnel code	Not applicable
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Packing instruction (ADR)	Not applicable
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Packing instruction (IMDG)	Not applicable
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14.7Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

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

Substance-specific regulations (e.g. licences)	No data available
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REACH code	Y110
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ECHA notification	Not applicable
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15.2Chemical safety assessment

No

SECTION 16

Other information

Revision notes / other information	Not applicable
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