

IMPORTANT NOTICE: This Safety Data Sheet (SDS) is prepared by CSL Behring in accordance with Safe Work Australia National Code of Practice for the Preparation of Safety Data Sheets (February 2016). The information contained herein must not be altered or deleted. Additional information may be appended to the SDS, but it must be marked clearly to indicate that it is not part of the original.

1. Identification

1.1. Product identifier

Product Identity	Beriner [®]
Alternate Names	Beriner [®]

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

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	CSL Behring (Australia) Pty Ltd (ABN 48 160 734 761) 189-209 Camp Road, Broadmeadows, Victoria 3047, Australia
	Telephone +61 03 9246 5200

Emergency	
24 hour Emergency Telephone No.	1800 642 865 (24hr)

2. Hazard(s) identification

Not classified as hazardous according to the WHS Regulations

All blood products should be treated as potentially infectious. No known test methods can offer assurance that products derived from human blood will not transmit infectious agents.

GHS Classification(s)	None Allocated
Signal Word	No signal word
Pictogram(s)	No Pictogram(s)
Hazard Statement(s)	None Allocated
Prevention statement(s)	None Allocated
Response	None Allocated
Storage	None Allocated
Disposal	None Allocated

3. Composition/information on ingredients

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

Non-Hazardous Ingredients:

Material: Medicinal product derived from human plasma.

Active ingredient: C1 esterase inhibitor, human (C1-INH) (non hazardous component)

Other components: Aminoacetic acid, sodium chloride, sodium citrate (non hazardous components)

Content: 500 U per vial

Packaging units: Pack with 1 vial with dried drug substance and 1 ampoule with 10 ml for injections (solvent)

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air.
Eye	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Drink water. Obtain medical attention if feeling ill.

4.2. Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.
See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media

Water or any medium suitable for extinguishing.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

None

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Collect/absorb spilled material and dispose of properly.

7. Handling and storage

7.1. Precautions for safe handling

General precautions for handling of pharmaceuticals are to be considered. Protect from light when handling.

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store and transport at 2C to 25C. Do not freeze.

Incompatible materials: No data available.

Keep container closed tightly.

Store locked up or accessible to authorized persons or their representatives only.

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients

above the GHS cut off percentage.

8.2. Exposure controls

Respiratory Not Applicable

Eyes Not Applicable

Skin Not Applicable

Engineering Controls Provide adequate ventilation.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	White Solid
Odor	None
Odor threshold	Not Measured
pH	6.5-7.5
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	Not Measured
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	Not Measured
Solubility in Water	Readily Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Molecular Weight	105 KD

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Store and transport at 2C to 25C. Do not freeze.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

11. Toxicological information

Acute toxicity

Single dose studies:

Acute toxicity studies were performed in rodents (mice, rats) with single i.v. injection. Up to doses of 6000 U/kg (mice) and 3000 U/kg (rats), no toxic findings were observed.

Local tolerance:

Rabbits were injected with 5 mL (1500 U/rabbit) i.v. The substance was regarded as local tolerable after i.v. injection.

Safety Pharmacology:

Dogs were injected i.v. at a maximal dose of 3500 U/kg b.w.. No relevant adverse effects were observed.

Neoantigenicity:

No evidence for the generation of a neoepitope in the C1 esterase inhibitor molecule was detected in a rabbit/guinea pig study.

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable

Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Product:

In accordance with state land and waste management authority.
Incineration in controlled furnaces.

Packaging:

Must be disposed of in compliance with country-specific regulations.

14. Transport information

Not classified as a dangerous good by the criteria of the ADG Code

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Regulated
14.3. Transport hazard class(es)	Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazards	Marine pollutant: No
14.6. Special precautions for user	No further information

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Schedule Number (SUSMP) Schedule 4 (S4) – Prescription only medicine

16. Other information

Last Revised

New SDS

Reason for Revision

Not Applicable

Abbreviations

SWA

Safe Work Australia

GHS

Globally Harmonised System

WHS

Work, Health and Safety

ACGIH

American Conference of Governmental Industrial Hygienists

ADG Code

Australian Dangerous Goods Code

UN Number

United Nations Number

DG Class

Dangerous Goods Class

CAS Number

Chemical Abstract Service Number

Contact Point

Company Contact:

1800 642 865 (24hr)

Australian Poisons Information Centre, 24 hour service:

13 11 26

Australian Police, Fire Brigade or Ambulance:

000

New Zealand Poisons Information Centre, 24 hour service:

0800 764 766

New Zealand Police, Fire Brigade or Ambulance:

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